Appendix to MBI-0025 Table 3

SEQ ID No.	GID	cDNA or protein	conserved domain
1	G28	cDNA	
2	G28	protein	145-213
3	G634	cDNA	
4	G634	protein	62-147, 189-245
5	G1792	cDNA	
6	G1792	protein	17-85
7	G156	cDNA	
8	G156	protein	2-57
9	G175	cDNA	
10	G175	protein	178-234,372-428
11	G189	cDNA	
12	G189	protein	240-297
13	G663	cDNA	
14	G663	protein	9-111
15	G867	cDNA	
16	G867	protein	59-124
17	G877	cDNA	
18	G877	protein	272-328,487-603
19	G912	cDNA	
20	G912	protein	51-118
21	G987	cDNA	
22	G987	protein	428-432,704-708
23	G1047	cDNA	
24	G1047	protein	129-180
25	G1062	cDNA	
26	G1062	protein	308-359
27	G1196	cDNA	
28	G1196	protein	179-254
29	G1363	cDNA	
30	G1363	protein	174-226
31	G1760	cDNA	
32	G1760	protein	2-57
33	G1820	cDNA	
34	G1820	protein	70-133
35	G1930	cDNA	
36	G1930	protein	59-124
37	G2010	cDNA	
38	G2010	protein	53-127
39	G3	cDNA	
40	G3	protein	28-95
41	G20	cDNA	

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42	G20	protein	68-144
43	G33	cDNA	
44	G33	protein	50-117
45	G39	cDNA	
46	G39	protein	24-90
47	G147	cDNA	
48	G147	protein	2-57
49	G158	cDNA	
50	G158	protein	2-57
51	G160	cDNA	
52	G160	protein	7-62
53	G180	cDNA	
54	G180	protein	118-174
55	G181	cDNA	
56	G181	protein	98-154
57	G184	cDNA	
58	G184	protein	295-352
59	G185	cDNA	
60	G185	protein	113-172
61	G195	cDNA	
62	G195	protein	183-239
63	G207	cDNA	
64	G207	protein	6-106
65	G229	cDNA	
66	G229	protein	14-120
67	G242	cDNA	
68	G242	protein	6-105
69	G247	cDNA	
70	G247	protein	15-116
71	G264	cDNA	
72	G264	protein	24-114
73	G278	cDNA	
74	G278	protein	2-593
75	G291	cDNA	
76	G291	protein	132-160
77	G343	cDNA	
78	G343	protein	178-214
79	G353	cDNA	
80	G353	protein	41-61,84-104
81	G354	cDNA	
82	G354	protein	42-62,88-109
83	G357	cDNA	
84	G357	protein	7-29
85	G364	cDNA	

09234465.960804

86	G364	protein	54-76
87	G385	cDNA	
88	G385	protein	60-123
89	G396	cDNA	
90	G396	protein	159-220
91	G439	cDNA	
92	G439	protein	110-177
93	G464	cDNA	
94	G464	protein	20-28,71-82,126-242,187-224
95	G477	cDNA	
96	G477	protein	108-233
97	G490	cDNA	
98	G490	protein	48-143
99	G545	cDNA	
100	G545	protein	82-102,136-154
101	G557	cDNA	
102	G557	protein	90-150
103	G568	cDNA	
104	G568	protein	215-265
105	G580	cDNA	
106	G580	protein	162-218
107	G590	cDNA	
108	G590	protein	202-254
109	G594	cDNA	
110	G594	protein	140-204
111	G599	cDNA	
112	G599	protein	187-219,264-300
113	G635	cDNA	
114	G635	protein	239-323
115	G638	cDNA	
116	G638	protein	119-206
117	G671	cDNA	
118	G671	protein	15-115
119	G680	cDNA	
120	G680	protein	24-70
121	G716	cDNA	
122	G716	protein	24-355
123	G736	cDNA	
124	G736	protein	54-111
125	G748	cDNA	
126	G748	protein	112-140
127	G779	cDNA	
128	G779	protein	126-182
129	G789	cDNA	

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130	G789	protein	253-313
131	G791	cDNA	
132	G791	protein	75-143
133	G801	cDNA	
134	G801	protein	32-93
135	G804	cDNA	
136	G804	protein	54-117
137	G805	cDNA	
138	G805	protein	51-114
139	G812	cDNA	
140	G812	protein	31-120
141	G849	cDNA	
142	G849	protein	324-413,504-583
143	G913	cDNA	
144	G913	protein	62-128
145	G921	cDNA	
146	G921	protein	146-203
147	G939	cDNA	
148	G939	protein	97-106
149	G940	cDNA	
150	G940	protein	86-96
151	G977	cDNA	
152	G977	protein	5-72
153	G979	cDNA	
154	G979	protein	63-139,165-233
155	G1000	cDNA	
156	G1000	protein	14-117
157	G1012	cDNA	
158	G1012	protein	30-86
159	G1014	cDNA	
160	G1014	protein	90-172
161	G1040	cDNA	
162	G1040	protein	109-158
163	G1050	cDNA	
164	G1050	protein	372-425
165	G1052	cDNA	
166	G1052	protein	201-261
167	G1063	cDNA	
168	G1063	protein	131-182
169	G1064	cDNA	
170	G1064	protein	116-179
171	G1067	cDNA	
172	G1067	protein	86-93
173	G1070	cDNA	

09534656.020504

174	G1070	protein	98-120
175	G1075	cDNA	
176	G1075	protein	78-85
177	G1089	cDNA	
178	G1089	protein	425-500
179	G1095	cDNA	
180	G1095	protein	134-159
181	G1134	cDNA	
182	G1134	protein	198-247
183	G1142	cDNA	
184	G1142	protein	63-123
185	G1202	cDNA	
186	G1202	protein	180-320
187	G1229	cDNA	
188	G1229	protein	102-160
189	G1242	cDNA	
190	G1242	protein	2-165
191	G1266	cDNA	
192	G1266	protein	79-147
193	G1267	cDNA	
194	G1267	protein	70-127
195	G1275	cDNA	
196	G1275	protein	113-169
197	G1311	cDNA	
198	G1311	protein	11-112
199	G1318	cDNA	
200	G1318	protein	20-123
201	G1321	cDNA	
202	G1321	protein	4-106
203	G1323	cDNA	
204	G1323	protein	15-116
205	G1326	cDNA	
206	G1326	protein	18-121
207	G1330	cDNA	
208	G1330	protein	28-134
209	G1367	cDNA	
210	G1367	protein	179-201,262-285,298-319,335-357
211	G1399	cDNA	
212	G1399	protein	86-93
213	G1411	cDNA	
214	G1411	protein	87-154
215	G1419	cDNA	
216	G1419	protein	69-137
217	G1421	cDNA	

218	G1421	protein	74-151
219	G1435	cDNA	
220	G1435	protein	146-194
221	G1449	cDNA	
222	G1449	protein	48-53,74-107,122-152
223	G1494	cDNA	
224	G1494	protein	261-311
225	G1496	cDNA	
226	G1496	protein	184-248
227	G1499	cDNA	
228	G1499	protein	118-181
229	G1514	cDNA	
230	G1514	protein	20-50
231	G1519	cDNA	
232	G1519	protein	327-364
233	G1521	cDNA	
234	G1521	protein	39-80
235	G1526	cDNA	
236	G1526	protein	493-620,864-1006
237	G1537	cDNA	
238	G1537	protein	14-74
239	G1543	cDNA	
240	G1543	protein	135-195
241	G1574	cDNA	
242	G1574	protein	28-350
243	G1586	cDNA	
244	G1586	protein	21-81
245	G1634	cDNA	
246	G1634	protein	129-180
247	G1635	cDNA	
248	G1635	protein	44-104
249	G1636	cDNA	
250	G1636	protein	100-165
251	G1640	cDNA	
252	G1640	protein	14-115
253	G1641	cDNA	
254	G1641	protein	139-200
255	G1646	cDNA	
256	G1646	protein	72-162
257	G1667	cDNA	
258	G1667	protein	45-67
259	G1706	cDNA	
260	G1706	protein	180-212
261	G1766	cDNA	

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262	G1766	protein	10-153
263	G1782	cDNA	
264	G1782	protein	166-238
265	G1795	cDNA	
266	G1795	protein	12-80
267	G1804	cDNA	
268	G1804	protein	357-407
269	G1807	cDNA	
270	G1807	protein	249-297
271	G1835	cDNA	
272	G1835	protein	224-296
273	G1836	cDNA	
274	G1836	protein	30-164
275	G1900	cDNA	
276	G1900	protein	54-106
277	G1903	cDNA	
278	G1903	protein	134-180
279	G1950	cDNA	
280	G1950	protein	65-228
281	G1958	cDNA	
282	G1958	protein	230-278
283	G2124	cDNA	
284	G2124	protein	75-132
285	G2143	cDNA	
286	G2143	protein	128-179
287	G2509	cDNA	
288	G2509	protein	89-156
289	G2557	cDNA	
290	G2557	protein	278-328
291	G5	cDNA	
292	G5	protein	149-216
293	G23	cDNA	
294	G23	protein	61-117
295	G194	cDNA	
296	G194	protein	174-230
297	G363	cDNA	
298	G363	protein	87-108
299	G440	cDNA	
300	G440	protein	122-189
301	G550	cDNA	
302	G550	protein	134-180
303	G670	cDNA	
304	G670	protein	14-122
305	G864	cDNA	

306	G864	protein	119-186
307	G960	cDNA	
308	G960	protein	13-156
309	G1008	cDNA	
310	G1008	protein	96-163
311	G1020	cDNA	
312	G1020	protein	28-95
313	G1053	cDNA	
314	G1053	protein	74-120
315	G1137	cDNA	
316	G1137	protein	264-314
317	G1181	cDNA	
318	G1181	protein	24-114
319	G1228	cDNA	
320	G1228	protein	179-233
321	G1277	cDNA	
322	G1277	protein	18-85
323	G1309	cDNA	
324	G1309	protein	9-114
325	G1382	cDNA	
326	G1382	protein	210-266,385-437
327	G1655	cDNA	
328	G1655	protein	134-192
329	G1757	cDNA	
330	G1757	protein	158-218
331	G1845	cDNA	
332	G1845	protein	140-207

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Table 4 **Appendix MBI-0025**

SEQ ID No.	GID	Knockout (KO) or overexpressor (OE)	Phenotype observed
1	G28	OE	Increased tolerance to fungal pathogens Sclerotinia and Botritis
3	G634	OE	Increase in trichome density and/or size
5	G1792	OE	Resistance to Erisyphe, Botritis and Fusarium and tolerance to low nitrogen conditions
7	G156	KO	Seeds are altered in color and plants have multiple developmental and architectural alterations such as dwarfing, aberrant branching, and occasional terminal flowers
9	G175	OE	Increased tolerance to osmotic stress in a germination assay
11	G189	OE	Increased leaf size
13	G663	OE	Increased anthocyanins in leaf, root and seed
15	G867	OE	Better growth on high salt media (sodium chloride) in a seedling growth assay
17	G877	KO	Embryo lethal
19	G912	OE	Freezing tolerance, increased survival in drought conditions, late flowering, increse pigmentation and small.
21	G987	KO	Small plants with reduced fertility with an 80% decrease in 16:3 fatty acid, 97% decrease in chlorophyll A, 96% decrease in chlorophyll B, 900% increase in gamma tocopherol and an overall 85% decrease in carotenoid pigments
23	G1047	OE	Increased tolerance to infection with Fusarium
25	G1062	KO	Slower growth and longer leaf plastochron, short inflorescences, twisted and wrinkled seeds, constitutively photomorphogenic and more sensitive to the hormone ethylene.
27	G1196	KO	Increased susceptibility to Botritis infection
29	G1363	OE	Increased tolerance to Fusarium
31	G1760	OE	Early flowering
33	G1820	OE	Early flowering, reduced sensitivity to the hormone ABA and to high salt (NaCl) in a germaination assay.
35	G1930	OE	Small, spindly inflorescences, poor fertility, better germination under osmotic stress (high salt and sucrose), 77% increase in chlorophyll A and 600% increas in chlorophyll B

37	G2010	OE	Early flowering
39	G3	OE	More sensitive to high temperature stress, small plant.
41	G20	OE	Up to 250% increase in campesterol
43	G33	OE	Multiple architectural and developmental defects including reduced fertility caused by senescing flowers and smallness
45	G39	OE	Small, reduced leaves number, abnormal flowers, and reduced fertility
47	G147	OE	Early flowering and other developmental phenotypes such as small size and upward leaf curling
49	G158	OE	UP to 40% increase in rhamnose
51	G160	OE	Multiple developmental and architectural phenotypes including arrested development at mid to late vegetative stages, small spindly bolts and premature yellowing and senescence.
53	G180	OE	Up to 23% decrease in seed oil
55	G181	OE	Up to 96% increase in a glucosinolate
57	G184	OE	Early flowering and small plants
59	G185	OE	Up to 99% increase in a glucosinolate and early flowering
61	G195	OE	Multiple developmental and architectural phenotypes, including reduction in size, leaf serration, spindly inflorescences, and poor fertility.
63	G207	KO	Increased susceptibility to Botrytis infection
65	G229	OE	Up-regulation of genes involved in secondary metabolism, including alkaloid and aramatic amino acid biosynthesis
67	G242	OE	Up to 32% increase in arabinose
69	G247	OE	Altered trichome distribution
71	G264	OE	Up to 96% increase in a glucosinolate
73	G278	OE	Increased susceptibility to Sclerotinia infection
75	G291	OE	Up to 13% increase in seed oil
77	G343	OE	Small plant and increased resistance to the herbicde glyphosate
79	G353	OE	Downward pointing flowers and siliques
81	G354	OE	Downward pointing flowers and siliques
83	G357	OE	Small plants with leaves that curled strongly upward and premature death
85	G364	OE	Small plants with leaves that curled strongly upward and premature death and infertility
87	G385	OE	Small plant, short inflorescence stems, dark green

89	G396	OE	Small, altered leaf coloration and shape, reduced fertility
91	G439	OE	Small with reduced fertility
93	G464	OE	Darker green, narrow, rolled leaves
95	G477	OE	Increased sensitivity to the herbicides glyphosate and acifluorfen and to oxidative stress caused by rose bengal Plants are also more sensitive to infection with Sclerotinia sclerotiorum.
97	G490	OE	Early flowering and up to 50% increase in gamma-tocopherol and up to 17% increase in gamma tocopherol
99	G545	OE	Increased tolerance to phosphate-free medium
101	G557	OE	Small plant, increased leaf pigmentation
103	G568	OE	Multiple developmental and architectural alterations, including altered branching and late flowering
105	G580	OE	Multiple developmental and architectural alterations of the flower, including droopy pedicels and decreased inflorescence internode length
107	G590	OE	Early flowering and up to 15% increased seed oil
109	G594	OE	Increased susceptibility to Sclerotinia infection
111	G599	OE	Small plant with extreme rolling and curling of rosette leaves
113	G635	OE	Alterations in chloroplast function and pigmentation in leaves
115	G638	OE	Multiple developmental and architectural alterations, including altered flower architecture, for example flowers with eight petals
117	G671	OE	Multiple developmental alterations including reduced fertility, smallness, altered inflorescence step structe, altered leaf shape and reduced petal abscission.
119	G680	OE	Late flowering
121	G716	OE	Spindly plants with flowers with short anthers, altered leaf shape and infertile.
123	G736	OE	Small, rounded leaves with long petioles
125	G748	OE	Up to 36% increase in lutein content in seeds

127	G779	OE	Increased levels of anthocyanin in seedlings, with disorganized rosettes and short internodes. Many homeotic transformations are observed in flowers, for example conversion of sepals to carpels. The most severely affected showed full conversion of sepals to carpels with ovules, stigmatic tissue on petals and stamens, and in some cases showed organ fusions.
129	G789	OE	Early flowering and increased sensitivity to oxidative stress and increased sensitivity to Sclerotinia
131	G791	OE	Alterations in seed fatty acid composition, including 28% decrease in 18:1 fatty acid.
133	G801	OE	Increased resistance to salt, sodium chloride, in a germiantion assay
135	G804	OE	Small with narrow rolled leaves
137	G805	OE	Increased susceptibility to Sclerotinia infection
139	G812	OE	Increased tolerance to Botrytis
141	G849	KO	Up to 14% increase in seed oil
143	G913	OE	Increased sensitivity to ACC and late flowering and small.
145	G921	OE	Increased sensitivity to osmotic stress and serrated leaves
147	G939	OE	Small plants that are pale green when grown on agar
149	G940	OE	Increased susceptibility to Botritis infection
151	G977	OE	Small plant with altered leaf shapt, dark green leaves and reduced fertility
153	G979	OE	Small with spindly inflorescences and abnormal, infertile flowers
155	G1000	OE	Small plant with reduced fertility. Alterations in plant architecture- petals and sepals may be absent and reduced inflorescence stem elongation
157	G1012	OE	Up to 40% decrease in rhamnose
159	G1014	OE	Small, with a shiny appearance, reduced trichomes, some loss of apical dominance, late senescence, and very low fertility
161	G1040	OE	Smaller and more rounded seeds
163	G1050	OE	Delayed senescence
165	G1052	OE	Later flowering
167	G1063	OE	Altered architecture and altered flower development
169	G1064	OE	Increased sensitivity to infection with Botrytis

171	G1067	OE	Small plant with altered leaf shape and reduced fertility
173	G1070	OE	Severe developmental alterations, including smallness, curled leaves, poor fertility and flowers with underdeveloped petals, and short stamens.
175	G1075	OE	Small plant with altered leaf shape, reduced or absent petals, sepals and stamens, reduced fertility and altered leaf shape
177	G1089	OE	Reduced seedling vigor
179	G1095	OE	Increased sensititivity to the hormone ethylene
181	G1134	OE	Altered response to the hormone ethylene and siliquies with altered shape
183	G1142	KO	Early flowering
185	G1202	OE	Alterations in leaf fatty acid composition, including a 230% increase in 18:0 and a 286% in 18:1
187	G1229	OE	Up to 59% decrease in seed oil and small plants paler in color, and rounder leaves
189	G1242	OE	Early flowering
191	G1266	OE	Increased tolerance to infection with Erysiphe
193	G1267	OE	Small plant with dark green shiny leaves
195	G1275	OE	Reduced apilcal dominance
197	G1311	OE	Small plant with reduced fertility
199	G1318	OE	Small, slow growing plants with contorted leaves, spindly inflorescences and flowers of poor fertility
201	G1321	OE	Altered flower morphology and poor fertility
203	G1323	OE	Small, dark green and up to 17% decreased seed oil and up to 17% increased seed protein
205	G1326	OE	Small plant with flowers with small petals and sepals and reduced fertility
207	G1330	OE	Abnormal phyllotaxy, spindly inflorescences, low seed yield with a insensitively to ACC, an ethylene hormone analog
209	G1367	OE	Small plants with reduced fertility
211	G1399	OE	Multiple developmental alterations, including slow growth, poor fertility, lesion like patches, premature senescence and undeveloped stamens and petals
213	G1411	OE	Reduced apical dominance
215	G1419	OE	Up to 10% increase in seed protein
217	G1421	OE	Small plant with reduced fertility and a 200% increase in a leaf glucosinolate
219	G1435	OE	Increased plant size and late flowering
221	G1449	OE	Up to 12% increase in seed protein content and changes in floral organ number and identity

223	G1494	OE	Small and early flowering
225	G1496	OE	Up to 14% increase in seed oil content
227	G1499	OE	Small, dark green, with curled leaves, and produced bolts that terminated without an inflorescence. Flowers can be replaced with filamentous structures or carpelloid structures or sepals can converted to carpelloid tissue and petals and stamens absent or reduced in size and number.
229	G1514	OE	Increased susceptibility to Botritis infection
231	G1519	KO	Embryo lethal
233	G1521	OE	Constitutive photomorphogenesis
235	G1526	KO	Up to 24% increase in seed oil
237	G1537	OE	Small, dwarfed with severe disruptions in shoot development and an 86% increase in 18:1 fatty acid
239	G1543	OE	Up to 32% increase in chlorophyll A, 127% increase in chlorophyll B, up to 19% decrease in seed oil, dark green leaves, an altered branching pattern that led to a shorter more compact stature and altered carpel shape
241	G1574	KO	Wrinkled pale leaves which developed light yellow patches as development progressed
243	G1586	OE	Small plants with narrow leaves
245	G1634	OE	Up to 14% decrease in seed protein
247	G1635	OE	Reduced apical dominance and reduced fertility
249	G1636	OE	Pale green, small plants
251	G1640	OE	Up to 22% increase in seed oil
253	G1641	OE	Small plant, with up to 47% increase in leaf rhamnose
255	G1646	OE	Up to 31% increase in seed oil
257	G1667	OE	Up to 19% decrease in seed oil
259	G1706	KO	Early flowering
261	G1766	OE	Small, upward curling leaves, spindly inflorescences and aberrant flowers with small sepals, petals and stamens with reduced pollen production and low seed set
263	G1782	OE	Small, spindly plant
265	G1795	OE	Small, slow growing, reduced trichome density on leaves with very spindly inflorescences and low seed yield.
267	G1804	OE	Late flowering and sensitive to high glucose in a germination assay, suggesting a potential role for this gene in sugar sensing

269	G1807	KO	More sensitive to acifluorfen
271	G1835	OE	Small, spindly plant
273	G1836	OE	Pale green and better germination on high salt media
275	G1900	OE	Late flowering
277	G1903	OE	Up to 24% decrease in seed protein
279	G1950	OE	Increased tolerance to Botritis
281	G1958	KO	Smaller with reduced root mass
283	G2124	OE	Small, spindly, slower growing with narrow curled leaves with elongated petioles
285	G2143	OE	Increased rate of leaf initiation
287	G2509	OE	Reduced apical dominance
289	G2557	OE	Small with altered cotyledon development
291	G5	OE	Small plants
293	G23	OE	Small plants
295	G194	OE	Small plant
297	G363	OE	Small plant
299	G440	OE	Small plant
301	G550	KO	Small plant
303	G670	OE	Small plant
305	G864	OE	Small plant
307	G960	OE	Small plant
309	G1008	OE	Small plant
311	G1020	OE	Small plants
313	G1053	OE	Small plant
315	G1137	OE	Small plants
317	G1181	OE	Small plants
319	G1228	OE	Small plant
321	G1277	OE	Small plant
323	G1309	OE	Small plant
325	G1382	OE	Small plant
327	G1655	OE	Small plant
329	G1757	OE	Small plant
331	G1845	OE	Small plant

Appendix to MBI-0025 Table 5

SEQ ID No.	GID	homolog	cDNA or protein	conserved domain
333	G1227	Homolog of G1228	cDNA	
334	G1227	Homolog of G1228	protein	183-244
335	G1379	Homolog of G1277	cDNA	
336	G1379	Homolog of G1277	protein	18-85
337	G1385	Homolog of G1845	cDNA	
338	G1385	Homolog of G1845	protein	184-251
339	G1847	Homolog of G1757	cDNA	
340	G1847	Homolog of G1757	protein	141-200
341	G2629	Homolog of G1053	cDNA	
342	G2629	Homolog of G1053	protein	85-135
343	G6	Homolog of G1020	cDNA	
344	G6	Homolog of G1020	protein	22-89
345	G9	Homolog of G1930 and G867	cDNA	
346	G9	Homolog of G1930 and G867	protein	62-127
347	G30	Homolog of G1795	cDNA	
348	G30	Homolog of G1795	protein	17-35
349	G40	Homolog of G912	cDNA	
350	G40	Homolog of G912	protein	45-112
351	G41	Homolog of G912	cDNA	
352	G41	Homolog of G912	protein	39-106
353	G42	Homolog of G912	cDNA	
354	G42	Homolog of G912	protein	48-115
355	G152	Homolog of G1760	cDNA	
356	G152	Homolog of G1760	protein	2-57
357	G153	Homolog of G1760	cDNA	
358	G153	Homolog of G1760	protein	2-57
9	G175	Homolog of G877	cDNA	
10	G175	Homolog of G877	protein	178-234,372-428
359	G186	Homolog of G184	cDNA	
360	G186	Homolog of G184	protein	312-369
361	G187	Homolog of G195	cDNA	
362	G187	Homolog of G195	protein	172-228
63	G207	Homolog of G242	cDNA	
64	G207	Homolog of G242	protein	6-106
363	G210	Homolog of G1000	cDNA	
364	G210	Homolog of G1000	protein	14-114
365	G227	Homolog of G207	cDNA	
366	G227	Homolog of G207	protein	13-112
367	G237	Homolog of G1309	cDNA	
368	G237	Homolog of G1309	protein	11-113
67	G242	Homolog of G207	cDNA	
68	G242	Homolog of G207	protein	6-105
73	G278	Homolog of G1196	cDNA	
74	G278	Homolog of G1196	protein	2-593
369	G342	Homolog of G343	cDNA	
370	G342	Homolog of G343	protein	155-190
371	G350	Homolog of G545	cDNA	
372	G350	Homolog of G545	protein	91-113,150-170
373	G384	Homolog of G385	cDNA	
374	G384	Homolog of G385	protein	14-77
375	G463	Homolog of G464	cDNA	
376	G463	Homolog of G464	protein	14-23,77-88,130-146,194-227
377	G470	Homolog of G716	cDNA	
378	G470	Homolog of G716	protein	61-393
379	G472	Homolog of G716	cDNA	
380	G472	Homolog of G716	protein	12-343
103	G568	Homolog of G580	cDNA	
104	G568	Homolog of G580	protein	215-265
105	G580	Homolog of G568	cDNA	
106	G580	Homolog of G568	protein	162-218
109	G594	Homolog of G1496	cDNA	
110	G594	Homolog of G1496	protein	140-204

381	G596	Homolog of G1070	cDNA	
382	G596	Homolog of G1070	protein	89-96
383	G610	Homolog of G849	cDNA	
384	G610	Homolog of G849	protein	330-410,530-622
385	G617	Homolog of G2124	cDNA	
386	G617	Homolog of G2124	protein	64-118
387	G644	Homolog of G987	cDNA	
388	G644	Homolog of G987	protein	335-715
389	G676	Homolog of G247	cDNA	
390	G676	Homolog of G247	protein	17-119
391	G715	Homolog of G1646	cDNA	
392	G715	Homolog of G1646	protein	60-132
393	G761	Homolog of G1766	cDNA	
394	G761	Homolog of G1766	protein	10-156
129	G789	Homolog of G1494	cDNA	
130	G789	Homolog of G1494	protein	253-313
395	G792	Homolog of G791	cDNA	
396	G792	Homolog of G791	protein	70-138
397	G831	Homolog of G1202	cDNA	
398	G831	Homolog of G1202	protein	470-591
399	G833	Homolog of G1202	cDNA	
400	G833	Homolog of G1202	protein	197-306,462-564
401	G839	Homolog of G278 and G1196	cDNA	
402	G839	Homolog of G278 and G1196	protein	40-318
403	G860	Homolog of G1760	cDNA	
404	G860	Homolog of G1760	protein	2-57
15	G867	Homolog of G1930	cDNA	
16	G867	Homolog of G1930	protein	59-124
17	G877	Homolog of G175	cDNA	
18	G877	Homolog of G175	protein	272-328,487-603
405	G916	Homolog of G184	cDNA	
406	G916	Homolog of G184	protein	293-349
407	G938	Homolog of G940 and G939	cDNA	
408	G938	Homolog of G940 and G939	protein	96-104
409	G941	Homolog of G2629 and G939	cDNA	
410	G941	Homolog of G2629 and G939	protein	95-103
411	G976	Homolog of G913	cDNA	
412	G976	Homolog of G913	protein	87-153
413	G993	Homolog of G1930 and G867	cDNA	
414	G993	Homolog of G1930 and G867	protein	69-134
415	G1006	Homolog of G28	cDNA	
416	G1006	Homolog of G28	protein	114-182
163	G1050	Homolog of G1807	cDNA	
164	G1050	Homolog of G1807	protein	372-425
417	G1051	Homolog of G1052	cDNA	
418	G1051	Homolog of G1052	protein	189-250
419	G1076	Homolog of G1075	cDNA	
420	G1076	Homolog of G1075	protein	82-89
421	G1128	Homolog of G1399	cDNA	
422	G1128	Homolog of G1399	protein	181-247
423	G1133	Homolog of G1137	cDNA	
424	G1133	Homolog of G1137	protein	256-326
425	G1186	Homolog of G1202	cDNA	
426	G1186	Homolog of G1202	protein	14-611
27	G1196	Homolog of G278	cDNA	
28	G1196	Homolog of G278	protein	179-254
427	G1210	Homolog of G1526	cDNA	
428	G1210	Homolog of G1526	protein	682-1251
429	G1211	Homolog of G291	cDNA	
430	G1211	Homolog of G291	protein	123-179
431	G1243	Homolog of G1242	cDNA	
432	G1243	Homolog of G1242	protein	216-609
433	G1290	Homolog of G278 and G1196	cDNA	
434	G1290	Homolog of G278 and G1196	protein	270-366

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435	G1320	Homolog of G1321	cDNA	
436	G1320	Homolog of G1321	protein	5-108
205	G1326	Homolog of G1321	cDNA	
206	G1326	Homolog of G1321	protein	18-121
437	G1329	Homolog of G663	cDNA	
438	G1329	Homolog of G663	protein	7-111
217	G1421	Homolog of G864	cDNA	
218	G1421	Homolog of G864	protein	74-151
439	G1455	Homolog of G960	cDNA	
440	G1455	Homolog of G960	protein	24-178
223	G1494	Homolog of G789	cDNA	
224	G1494	Homolog of G789	protein	261-311
225	G1496	Homolog of G594	cDNA	
226	G1496	Homolog of G594	protein	184-248
441	G1544	Homolog of G385	cDNA	
442	G1544	Homolog of G385	protein	64-124
443	G1553	Homolog of G716	cDNA	
444	G1553	Homolog of G716	protein	40-372
445	G1588	Homolog of G385	cDNA	
446	G1588	Homolog of G385	protein	66-124
245	G1634	Homolog of G1641	cDNA	
246	G1634	Homolog of G1641	protein	129-180
447	G1750	Homolog of G440	cDNA	
448	G1750	Homolog of G440	protein	107-173
263	G1782	Homolog of G1363	cDNA	
264	G1782	Homolog of G1363	protein	166-238
449	G1805	Homolog of G1089	cDNA	
450	G1805	Homolog of G1089	protein	413-443
269	G1807	Homolog of G1050	cDNA	
270	G1807	Homolog of G1050	protein	249-297
451	G1808	Homolog of G1047	cDNA	
452	G1808	Homolog of G1047	protein	140-200
453	G1818	Homolog of G1836	cDNA	
454	G1818	Homolog of G1836	protein	36-113
455	G1819	Homolog of G1820	cDNA	
456	G1819	Homolog of G1820	protein	46-188
273	G1836	Homolog of G1820	cDNA	
274	G1836	Homolog of G1820	protein	30-164
457	G1895	Homolog of G1903	cDNA	
458	G1895	Homolog of G1903	protein	55-110
35	G1930	Homolog of G867	cDNA	
36	G1930	Homolog of G867	protein	59-124
459	G1931	Homolog of G181	cDNA	
460	G1931	Homolog of G181	protein	114-170
461	G1939	Homolog of G801	cDNA	
462	G1939	Homolog of G801	protein	40-102
463	G1974	Homolog of G354 and G353	cDNA	
464	G1974	Homolog of G354 and G353	protein	32-60,72-116
465	G2105	Homolog of G638	cDNA	
466	G2105	Homolog of G638	protein	100-153
467	G2109	Homolog of G158	cDNA	
468	G2109	Homolog of G158	protein	2-57
469	G2130	Homolog of G1008	cDNA	
470	G2130	Homolog of G1008	protein	93-160
471	G2159	Homolog of G599	cDNA	
472	G2159	Homolog of G599	protein	179-218,260-288
473	G2231	Homolog of G1095	cDNA	
474	G2231	Homolog of G1095	protein	138-184
475	G2242	Homolog of G1706	cDNA	
476	G2242	Homolog of G1706	protein	126-169
477	G2347	Homolog of G2010	cDNA	
478	G2347	Homolog of G2010	protein	60-136
479	G2421	Homolog of G663	cDNA	
480	G2421	Homolog of G663	protein	9-110

481	G2422	Homolog of G663	cDNA	
482	G2422	Homolog of G663	protein	9-110
483	G2423	Homolog of G1330	cDNA	
484	G2423	Homolog of G1330	protein	50-100
485	G2467	Homolog of G812	cDNA	
486	G2467	Homolog of G812	protein	27-115
287	G2509	Homolog of G1411	cDNA	
288	G2509	Homolog of G1411	protein	89-156
487	G2514	Homolog of G913	cDNA	
488	G2514	Homolog of G913	protein	16-82
489	G2547	Homolog of G1586	cDNA	
490	G2547	Homolog of G1586	protein	30-90
491	G2657	Homolog of G1070	cDNA	
492	G2657	Homolog of G1070	protein	116-129
493	G2659	Homolog of G1142	cDNA	
494	G2659	Homolog of G1142	protein	49-96
495	G2701	Homolog of G1634	cDNA	
496	G2701	Homolog of G1634	protein	33-81,129-183
497	G2741	Homolog of G1435	cDNA	
498	G2741	Homolog of G1435	protein	140-205
499	G2781	Homolog of G599	cDNA	
500	G2781	Homolog of G599	protein	228-290
501	G2839	Homolog of G354 and G353	cDNA	
502	G2839	Homolog of G354 and G353	protein	34-60,85-113
503	G3010	Homolog of G987	cDNA	
504	G3010	Homolog of G987	protein	397-706

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Table 6 Appendix MBI-0025

SEQ ID No.	GID	Genbank NID	P-value	%ID	Species
1	G28	7528275	8.20E-62	68%	Mesembryanthemum crystallinum
1	G28	6654776	2.30E-57	63%	Medicago truncatula
1	G28	790362	4.60E-54	52%	Nicotiana tabacum
1	G28	8809570	1.60E-53	48%	Nicotiana sylvestris
1	G28	3342210	1.60E-53	54%	Lycopersicon esculentum
1	G28	9454895	1.80E-50	60%	Lycopersicon hirsutum
1	G28	6566281	1.60E-46	66%	Glycine max
1	G28	13354306	2.70E-46	75%	Gossypium arboreum
1	G28	7324479	3.90E-44	61%	Lycopersicon pennellii
1	G28	14140112	1.40E-38	54%	Oryza sativa
3	G634	13646985	1.70E-77	40%	Pisum sativum
3	G634	20248	8.10E-67	37%	Oryza sativa
3	G634	9506332	1.40E-43	57%	Lycopersicon esculentum
3	G634	5045904	1.10E-40	60%	Gossypium hirsutum
3	G634	12035646	9.00E-40	52%	Hordeum vulgare
3	G634	13356501	7.80E-34	49%	Gossypium arboreum
3	G634	7561490	3.90E-30	45%	Medicago truncatula
3	G634	7284190	8.30E-30	47%	Glycine max
3	G634	14492446	2.50E-29	53%	Populus tremula x Populus tremuloides
3	G634	9427785	1.40E-28	48%	Triticum aestivum
5	G1792	5274667	6.90E-33	64%	Lycopersicon esculentum
5	G1792	11911454	7.50E-30	55%	Medicago truncatula
5	G1792	14126242	6.00E-28	57%	Glycine max
5	G1792	7249444	2.40E-27	53%	Oryza sativa
5	G1792	7528275	2.10E-22	60%	Mesembryanthemum crystallinum
5	G1792	11206722	3.40E-21	51%	Gossypium arboreum
5	G1792	790362	5.30E-21	60%	Nicotiana tabacum
5	G1792	8980312	6.00E-21	55%	Catharanthus roseus
5	G1792	13610272	1.20E-20	64%	Solanum tuberosum
5	G1792	13306236	1.70E-20	50%	Euphorbia esula
7	G156	13384061	1.30E-28	69%	Petunia x hybrida
7	G156	11207821	1.80E-25	70%	Gossypium arboreum
7	G156	5605137	5.00E-24	67%	Lycopersicon esculentum
7	G156	4105096	1.10E-22	57%	Cucumis sativus
7	G156	4218172	5.70E-21	54%	Gerbera hybrida
7	G156	6580946	1.50E-17	71%	Picea abies
7	G156	602901	1.80E-17	59%	Silene latifolia
7	G156	6826955	1.50E-16	64%	Zea mays
7	G156	3170463	1.70E-16	66%	Papaver nudicaule
7	G156	11567858	2.40E-16	63%	Triticum aestivum
9	G175	14530686	3.60E-106	47%	Nicotiana tabacum
9	G175	13620219	2.10E-103	52%	Lycopersicon esculentum
9	G175	13956691	2.60E-63	75%	Brassica oleracea
9	G175	484260	8.70E-52	36%	Ipomoea batatas
9	G175	1159876	1.90E-51	46%	Avena fatua
9	G175	927024	1.70E-49	71%	Cucumis sativus
9	G175	14422465	9.60E-49	36%	Oryza sativa
9	G175	3420905	1.60E-48	44%	Pimpinella brachycarpa

9	G175	1431871	2.40E-48	50%	Petroselinum crispum
9	G175	13352606	2.30E-47	43%	Gossypium arboreum
11	G189	12491619	7.50E-46	74%	Glycine max
11	G189	10798759	3.90E-45	72%	Nicotiana tabacum
11	G189	1432055	2.40E-44	85%	Petroselinum crispum
11	G189	12627667	2.60E-35	76%	Lycopersicon esculentum
11	G189	9687212	1.20E-31	66%	Medicago truncatula
11	G189	8706346	1.80E-30	83%	Hordeum vulgare
11	G189	9302479	4.10E-30	68%	Sorghum bicolor
11	G189	9846092	9.30E-30	87%	Triticum aestivum
11	G189	14243534	5.80E-29	60%	Zea mays
11	G189	8404566	8.10E-28	79%	Oryza sativa
13	G663	7673087	8.10E-43	81%	Petunia integrifolia
13	G663	9508051	4.70E-41	79%	Lycopersicon esculentum
13	G663	7673091	5.20E-41	81%	Petunia x hybrida
13	G663	7673097	3.70E-36	79%	Petunia axillaris
13	G663	11899730	1.60E-34	68%	Medicago truncatula
13	G663	5048991	1.90E-33	68%	Gossypium hirsutum
13	G663	6455590	3.90E-31	62%	Glycine max
13	G663	13351564	9.30E-31	68%	Gossypium arboreum
13	G663	14269332	5.50E-26	72%	Gossypium raimondii
13	G663	14269334	5.60E-26	72%	Gossypium herbaceum
15	G867	13486919	1.90E-75	64%	Oryza sativa
15	G867	11609281	1.70E-61	67%	Medicago truncatula
15	G867	11412846	4.20E-58	69%	Glycine max
15	G867	8329389	1.80E-50	61%	Mesembryanthemum crystallinum
15	G867	12624500	6.80E-50	67%	Lycopersicon esculentum
15	G867	13608522	1.00E-49	67%	Solanum tuberosum
15	G867	13256068	1.40E-48	62%	Hordeum vulgare
15	G867	11027504	1.70E-42	58%	Secale cereale
15	G867	12657058	9.60E-41	64%	Lupinus luteus
15	G867	9851335	4.40E-40	63%	Sorghum bicolor
17	G877	14530686	2.30E-148	46%	Nicotiana tabacum
17	G877	13620219	7.70E-129	51%	Lycopersicon esculentum
17	G877	13352606	8.50E-62	56%	Gossypium arboreum
17	G877	14422465	8.30E-55	42%	Oryza sativa
17	G877	11690655	1.00E-51	58%	Glycine max
17	G877	484260	1.00E-42	35%	Ipomoea batatas
17	G877	1431871	1.40E-40	32%	Petroselinum crispum
17	G877	13956691	2.70E-40	60%	Brassica oleracea
17	G877	3420905	1.50E-39	40%	Pimpinella brachycarpa
17	G877	5047470	3.60E-39	75%	Gossypium hirsutum
19	G912	5616085	1.70E-70	66%	Brassica napus
19	G912	12003383	1.40E-55	57%	Nicotiana tabacum
19	G912	13151279	6.90E-53	87%	Descurainia sophia
19	G912	13608799	3.80E-48	59%	Solanum tuberosum
19	G912	13780081	9.90E-48	57%	Medicago truncatula
19	G912	7410271	1.10E-45	64%	Lycopersicon esculentum
19	G912	13252281	2.10E-42	73%	Glycine max
19	G912	6983854	2.50E-34	46%	Oryza sativa
19	G912	7324530	2.00E-32	71%	Lycopersicon pennellii
19	G912	12658318	3.20E-32	42%	Hordeum vulgare

21	G987	9828612	2.90E-223	40%	Oryza sativa
21	G987	13609882	8.60E-68	57%	Solanum tuberosum
21	G987	8528615	5.10E-63	62%	Medicago truncatula
21	G987	8380451	1.00E-62	60%	Gossypium arboreum
21	G987	7285116	1.30E-61	62%	Glycine max
21	G987	13318362	1.90E-55	56%	Sorghum bicolor
21	G987	14527288	5.20E-55	56%	Hordeum vulgare subsp. spontaneum
21	G987	14528600	1.20E-53	52%	Hordeum vulgare subsp. vulgare
21	G987	7409337	3.00E-51	57%	Lycopersicon esculentum
21	G987	11113883	2.40E-48	59%	Triticum monococcum
23	G1047	10805164	5.70E-27	39%	Lycopersicon esculentum
23	G1047	13615940	3.00E-10	35%	Solanum tuberosum
23	G1047	11550131	4.80E-10	38%	Mesembryanthemum crystallinum
23	G1047	11688224	5.60E-10	37%	Glycine max
23	G1047	6708813	8.00E-10	37%	Medicago truncatula
23	G1047	12829955	8.00E-10	33%	Phaseolus acutifolius
23	G1047	13430399	2.00E-09	33%	Phaseolus vulgaris
23	G1047	13355861	2.30E-09	33%	Gossypium arboreum
23	G1047	8334992	6.90E-09	37%	Oryza sativa
25	G1062	7565910	2.30E-27	52%	Medicago truncatula
25	G1062	12623515	2.60E-24	48%	Lycopersicon esculentum
25	G1062	7925024	8.90E-23	58%	Glycine max
25	G1062	8335157	1.20E-21	90%	Oryza sativa
25	G1062	14514523	2.00E-15	77%	Sorghum bicolor
25	G1062	9962588	6.00E-15	82%	Cryptomeria japonica
25	G1062	11035526	3.90E-14	88%	Solanum tuberosum
25	G1062	5056284	1.10E-13	47%	Brassica rapa subsp. pekinensis
25	G1062	9859722	1.80E-12	87%	Hordeum vulgare
25	G1062	11205229	2.70E-12	75%	Gossypium arboreum
27	G1196	11340602	1.20E-145	59%	Zea mays
27	G1196	13365594	1.60E-126	57%	Oryza sativa
27	G1196	12226160	2.10E-125	56%	Triticum aestivum
27	G1196	12492346	2.10E-58	74%	Glycine max
27	G1196	11897424	1.20E-52	54%	Medicago truncatula
27	G1196	13320330	2.10E-52	57%	Hordeum vulgare
27	G1196	7659681	4.70E-47	63%	Sorghum bicolor
27	G1196	6917813	5.30E-46	69%	Lycopersicon pennellii
27	G1196	13618649	1.20E-38	53%	Solanum tuberosum
27	G1196	14491658	6.90E-31	59%	Populus tremula x Populus tremuloides
29	G1363	5936788	1.40E-25	65%	Zea mays
29	G1363	9414141	7.60E-23	59%	Triticum aestivum
29	G1363	7067431	1.20E-22	59%	Physcomitrella patens
29	G1363	13615211	3.90E-22	61%	Solanum tuberosum
29	G1363	11902104	5.50E-22	62%	Medicago truncatula
29	G1363	9436958	7.60E-21	58%	Avena sativa
29	G1363	8381309	7.90E-21	48%	Gossypium arboreum
29	G1363	2826785	6.60E-20	63%	Oryza sativa
29	G1363	8996139	1.20E-19	64%	Suaeda maritima subsp. salsa
29	G1363	12493326	1.40E-17	47%	Glycine max
31	G1760	1816458	4.80E-37	86%	Antirrhinum majus
31	G1760	6529154	2.50E-36	81%	Lycopersicon esculentum
31	G1760	5776633	3.30E-36	85%	Medicago truncatula

31	G1760	1928873	3.20E-33	77%	Medicago sativa
31	G1760	13611019	1.20E-32	83%	Solanum tuberosum
31	G1760	13275254	3.90E-31	81%	Zea mays
31	G1760	7591198	1.50E-27	81%	Glycine max
31	G1760	9851777	4.10E-27	85%	Sorghum bicolor
31	G1760	6467973	8.90E-21	59%	Dendrobium grex Madame Thong-IN
31	G1760	8705762	9.20E-21	65%	Hordeum vulgare
33	G1820	7766532	1.30E-41	50%	Medicago truncatula
33	G1820	13609817	2.20E-38	49%	Solanum tuberosum
33	G1820	6059257	2.80E-34	55%	Lycopersicon esculentum
33	G1820	8789169	3.20E-34	50%	Citrus x paradisi
33	G1820	13350457	8.60E-34	54%	Gossypium arboreum
33	G1820	11542584	6.30E-33	56%	Triticum aestivum
33	G1820	7590809	2.50E-32	54%	Glycine max
33	G1820	5257255	3.70E-31	56%	Oryza sativa
33	G1820	6918056	4.40E-31	55%	Lycopersicon pennellii
33	G1820	4152190	2.30E-29	54%	Zea mays
35	G1930	13486919	1.10E-70	58%	Oryza sativa
35	G1930	13783285	2.20E-58	62%	Medicago truncatula
35	G1930	12624500	2.30E-49	62%	Lycopersicon esculentum
35	G1930	13608522	2.70E-49	68%	Solanum tuberosum
35	G1930	13256068	4.30E-47	61%	Hordeum vulgare
35	G1930	8329389	7.10E-47	75%	Mesembryanthemum crystallinum
35	G1930	6069592	1.70E-46	60%	Glycine max
35	G1930	12657058	4.50E-43	63%	Lupinus luteus
35	G1930	11027504	1.20E-41	57%	Secale cereale
35	G1930	9851335	2.80E-38	61%	Sorghum bicolor
37	G2010	6062271	7.00E-31	50%	Lycopersicon esculentum
37	G2010	8402798	7.20E-30	68%	Glycine max
37	G2010	1183865	9.40E-30	48%	Antirrhinum majus
37	G2010	13379193	1.80E-29	49%	Medicago truncatula
37	G2010	14491915	3.10E-27	64%	Populus tremula x Populus tremuloides
37	G2010	9698356	4.00E-27	63%	Triticum aestivum
37	G2010	8405433	5.60E-27	62%	Hordeum vulgare
37	G2010	12587188	1.80E-25	48%	Solanum tuberosum
37	G2010	7660905	7.30E-25	66%	Sorghum bicolor
37	G2010	601870	7.20E-24	55%	Oryza sativa
39	G3	5047442	5.30E-36	68%	Gossypium hirsutum
39	G3	6073106	2.30E-35	59%	Glycine max
39	G3	5273258	1.90E-32	60%	Lycopersicon esculentum
39	G3	11913649	2.00E-31	58%	Medicago truncatula
39	G3	13151052	4.00E-29	55%	Descurainia sophia
39	G3	5091496	5.60E-28	58%	Oryza sativa
39	G3	7774679	7.40E-27	59%	Lotus japonicus
39	G3	13084070	2.60E-24	60%	Hordeum vulgare
39	G3	7536201	8.00E-20	79%	Sorghum bicolor
39	G3	11778611	1.20E-18	48%	Pinus taeda
41	G20	8331798	1.10E-71	44%	Mesembryanthemum crystallinum
41	G20	9292010	1.20E-59	73%	Lycopersicon esculentum
41	G20	13098301	2.40E-44	96%	Hordeum vulgare
41	G20	13068822	1.20E-35	100%	Pinus taeda
41	G20	13616907	4.10E-20	89%	Solanum tuberosum

41	G20	11411654	2.30E-17	49%	Glycine max
41	G20	14569939	1.50E-15	88%	Sorghum bicolor
41	G20	11912732	6.20E-15	76%	Medicago truncatula
41	G20	13178470	5.00E-13	67%	Zea mays
41	G20	13548703	7.90E-13	75%	Oryza sativa
43	G33	13247720	3.80E-24	41%	Gossypium arboreum
43	G33	7273967	4.30E-22	63%	Oryza sativa
43	G33	13598668	4.60E-22	55%	Medicago truncatula
43	G33	12624186	7.80E-22	73%	Lycopersicon esculentum
43	G33	10709722	8.80E-22	49%	Glycine max
43	G33	4099920	1.50E-21	47%	Stylosanthes hamata
43	G33	12641410	2.40E-21	73%	Lycopersicon pennellii
43	G33	790360	3.40E-21	40%	Nicotiana tabacum
43	G33	13614905	4.30E-21	45%	Solanum tuberosum
45	G39	10238764	4.80E-23	44%	Glycine max
45	G39	6531328	6.50E-22	42%	Lycopersicon esculentum
45	G39	11607832	5.50E-21	47%	Medicago truncatula
45	G39	13356108	8.70E-21	47%	Gossypium arboreum
45	G39	9963529	1.60E-20	52%	Cryptomeria japonica
45	G39	7781943	5.00E-20	56%	Lotus japonicus
45	G39	12482727	8.30E-20	50%	Pinus taeda
45	G39	9251613	6.40E-19	59%	Solanum tuberosum
45	G39	13027227	1.70E-17	35%	Oryza sativa
45	G39	12036498	6.20E-17	42%	Hordeum vulgare
47	G147	12329145	3.30E-21	65%	Oryza sativa
47	G147	9444979	8.90E-20	80%	Triticum aestivum
47	G147	7647685	3.90E-18	61%	Lycopersicon esculentum
47	G147	6468289	1.00E-16	74%	Gnetum gnemon
47	G147	13380291	1.60E-16	52%	Medicago truncatula
47	G147	12776381	3.60E-16	72%	Sorghum bicolor
47	G147	13156275	5.60E-16	70%	Hordeum vulgare
47	G147	11441338	8.10E-16	70%	Secale cereale
47	G147	4730436	2.40E-15	72%	Zea mays
47	G147	8329107	2.60E-15	69%	Mesembryanthemum crystallinum
49	G158	19387	2.00E-11	62%	Lycopersicon esculentum
49	G158	10880310	9.00E-11	66%	Gnetum gnemon
49	G158	5046709	2.60E-10	60%	Gossypium hirsutum
49	G158	4979250	3.30E-10	53%	Oryza sativa
49	G158	13538392	3.50E-10	56%	Glycine max
49	G158	6708803	3.90E-10	58%	Medicago truncatula
49	G158	9696306	4.50E-10	51%	Triticum aestivum
49	G158	11222926	5.50E-10	51%	Aegilops speltoides
49	G158	12482667	5.60E-10	56%	Pinus taeda
49	G158	13349868	5.60E-10	58%	Gossypium arboreum
51	G160	14145439	2.90E-17	55%	Lycopersicon esculentum
51	G160	758566	1.60E-16	50%	Solanum tuberosum
51	G160	886404	3.90E-16	41%	Oryza sativa
51	G160	9674007	1.30E-12	45%	Medicago truncatula
51	G160	9985912	1.80E-12	40%	Glycine max
51	G160	7274827	2.00E-12	50%	Pinus taeda
51	G160	5777903	2.20E-12	40%	Malus x domestica
51	G160	3986688	4.70E-12	42%	Cichorium intybus

51	G160	14569891	6.60E-12	40%	Sorghum bicolor
51	G160	695689	1.30E-11	44%	Picea abies
53	G180	13615256	2.10E-47	64%	Solanum tuberosum
53	G180	8468047	3.80E-35	59%	Oryza sativa
53	G180	7559831	3.70E-24	69%	Medicago truncatula
53	G180	11413452	1.00E-23	72%	Glycine max
53	G180	5272716	1.90E-23	63%	Lycopersicon esculentum
53	G180	9304207	2.50E-21	63%	Sorghum bicolor
53	G180	13107876	3.40E-21	67%	Hordeum vulgare
53	G180	7721184	2.50E-20	57%	Lotus japonicus
53	G180	9862228	2.10E-19	63%	Triticum aestivum
55	G181	6566312	3.70E-33	86%	Glycine max
55	G181	13094241	2.70E-32	85%	Oryza sativa
55	G181	9187621	1.80E-28	61%	Solanum tuberosum
55	G181	5272716	1.90E-28	61%	Lycopersicon esculentum
55	G181	11910731	5.70E-27	64%	Medicago truncatula
55	G181	5916563	8.90E-22	59%	Mesembryanthemum crystallinum
55	G181	9304207	2.40E-21	60%	Sorghum bicolor
55	G181	7243988	2.60E-21	64%	Mentha x piperita
55	G181	7721184	1.20E-20	56%	Lotus japonicus
55	G181	9862228	3.70E-20	55%	Triticum aestivum
57	G184	8282721	6.00E-66	80%	Glycine max
57	G184	5600986	2.70E-63	82%	Lycopersicon esculentum
57	G184	11900500	1.20E-57	61%	Medicago truncatula
57	G184	10179050	6.30E-55	57%	Oryza sativa
57	G184	14205046	4.90E-51	86%	Glycine clandestina
57	G184	13355622	2.10E-47	66%	Gossypium arboreum
57	G184	9961628	2.40E-36	89%	Cryptomeria japonica
57	G184	9299778	8.20E-24	76%	Sorghum bicolor
57	G184	3414015	5.10E-18	94%	Brassica rapa subsp. pekinensis
59	G185	13782049	4.90E-29	40%	Medicago truncatula
59	G185	13482065	1.10E-24	64%	Glycine max
59	G185	5604447	1.20E-19	43%	Lycopersicon esculentum
59	G185	9250625	1.30E-19	40%	Solanum tuberosum
59	G185	12404921	1.90E-16	56%	Oryza sativa subsp. japonica
59	G185	9662712	3.20E-16	56%	Secale cereale
59	G185	13657743	5.10E-15	44%	Triticum monococcum
59	G185	11543610	1.50E-13	51%	Triticum aestivum
59	G185	13027324	7.90E-13	61%	Oryza sativa
59	G185	7779701	1.00E-12	57%	Lotus japonicus
61	G195	9304207	5.60E-31	74%	Sorghum bicolor
61	G195	7562279	2.70E-30	75%	Medicago truncatula
61	G195	9444636	4.00E-30	78%	Triticum aestivum
61	G195	5058292	1.60E-29	69%	Glycine max
61	G195	7721184	8.80E-28	69%	Lotus japonicus
61	G195	8105974	3.90E-27	49%	Lycopersicon esculentum
61	G195	9711848	6.00E-24	76%	Oryza sativa
61	G195	14266776	8.20E-24	68%	Solanum tuberosum
61	G195	5268376	7.00E-21	50%	Zea mays
61	G195	8903662	9.90E-19	58%	Hordeum vulgare
63	G207	6529807	2.90E-63	63%	Lycopersicon esculentum
63	G207	9954111	1.80E-62	62%	Solanum tuberosum

63	G207	11203010	2.50E-61	63%	Gossypium arboreum
63	G207	7564212	2.00E-57	62%	Medicago truncatula
63	G207	5820271	1.30E-53	66%	Glycine max
63	G207	7322467	6.70E-52	69%	Lycopersicon hirsutum
63	G207	13936413	9.20E-51	47%	Oryza sativa
63	G207	12666184	3.00E-49	67%	Lupinus luteus
63	G207	5045349	4.20E-46	82%	Gossypium hirsutum
65	G229	7337390	1.00E-50	93%	Lycopersicon esculentum
65	G229	9823237	5.60E-50	86%	Hordeum vulgare
65	G229	7244424	7.60E-50	84%	Mentha x piperita
65	G229	7776053	2.60E-49	73%	Lotus japonicus
65	G229	2921335	9.10E-48	84%	Gossypium hirsutum
65	G229	1491932	7.00E-47	86%	Zea mays
65	G229	6455590	4.40E-44	75%	Glycine max
65	G229	11526774	4.90E-44	86%	Zea mays subsp. parviglumis
65	G229	11200943	6.20E-42	77%	Gossypium arboreum
65	G229	6020191	9.30E-42	70%	Pinus taeda
67	G242	6529807	3.80E-70	67%	Lycopersicon esculentum
67	G242	9954111	5.40E-70	66%	Solanum tuberosum
67	G242	11203010	8.40E-70	70%	Gossypium arboreum
67	G242	7564212	4.40E-62	64%	Medicago truncatula
67	G242	5820271	7.20E-60	73%	Glycine max
67	G242	7322467	2.10E-55	72%	Lycopersicon hirsutum
67	G242	5045349	3.50E-51	76%	Gossypium hirsutum
67	G242	12666184	2.60E-50	70%	Lupinus luteus
67	G242	13936413	4.00E-50	51%	Oryza sativa
69	G247	13248398	1.70E-47	38%	Gossypium arboreum
69	G247	10232415	1.00E-33	68%	Glycine max
69	G247	13089639	3.30E-33	75%	Hordeum vulgare
69	G247	5048991	5.00E-33	73%	Gossypium hirsutum
69	G247	5603574	7.80E-33	68%	Lycopersicon esculentum
69	G247	14267068	1.50E-32	68%	Solanum tuberosum
69	G247	6020191	1.60E-32	71%	Pinus taeda
69	G247	11026736	2.90E-32	75%	Secale cereale
69	G247	7765706	6.80E-32	68%	Medicago truncatula
69	G247	7721017	1.20E-31	68%	Lotus japonicus
71	G264	13783348	3.80E-76	54%	Medicago truncatula
71	G264	13778965	3.50E-75	59%	Lycopersicon esculentum
71	G264	14267224	4.60E-75	59%	Solanum tuberosum
71	G264	12975809	8.80E-74	56%	Mesembryanthemum crystallinum
71	G264	11199392	1.00E-55	52%	Gossypium arboreum
71	G264	886741	3.10E-49	43%	Zea mays
71	G264	5821137	2.10E-48	42%	Nicotiana tabacum
71	G264	13090662	1.10E-46	68%	Hordeum vulgare
71	G264	12082351	3.50E-46	41%	Oryza sativa
71	G264	7158881	1.40E-45	34%	Medicago sativa
73	G278	8698575	1.20E-115	51%	Oryza sativa
73	G278	11340602	7.70E-70	44%	Zea mays
73	G278	12226158	5.00E-67	43%	Triticum aestivum
73	G278	9433342	2.00E-46	50%	Lycopersicon esculentum
73	G278	13392562	2.10E-45	53%	Sorghum bicolor
73	G278	9659771	8.80E-40	56%	Triticum monococcum

73	G278	13618649	1.00E-35	50%	Solanum tuberosum
73	G278	13320330	1.80E-34	45%	Hordeum vulgare
73	G278	6917813	3.70E-31	52%	Lycopersicon pennellii
73	G278	8285656	1.70E-30	50%	Glycine max
75	G291	3320378	1.20E-136	80%	Medicago sativa
75	G291	3420298	1.20E-136	74%	Oryza sativa subsp. indica
75	G291	12002864	7.40E-136	78%	Lycopersicon esculentum
75	G291	13612755	7.00E-118	94%	Solanum tuberosum
75	G291	8331322	5.60E-102	93%	Mesembryanthemum crystallinum
75	G291	8705545	7.20E-92	89%	Hordeum vulgare
75	G291	5048578	1.30E-86	82%	Gossypium hirsutum
75	G291	9454876	5.30E-83	78%	Lycopersicon hirsutum
75	G291	7561175	3.50E-82	80%	Medicago truncatula
75	G291	10843277	1.10E-80	93%	Glycine max
77	G343	9211293	3.90E-46	57%	Oryza sativa
77	G343	6567410	5.70E-38	70%	Glycine max
77	G343	8088643	1.20E-34	76%	Sorghum bicolor
77	G343	6827291	2.30E-34	92%	Zea mays
77	G343	8529362	2.20E-33	47%	Medicago truncatula
77	G343	403305	3.40E-29	46%	Nicotiana tabacum
77	G343	5889121	2.80E-28	53%	Lycopersicon esculentum
77	G343	12019033	5.40E-28	73%	Triticum aestivum
77	G343	13351428	1.90E-27	48%	Gossypium arboreum
77	G343	11997053	3.60E-27	63%	Sorghum propinquum
79	G353	1128930	5.70E-37	90%	Brassica rapa
79	G353	2346975	2.40E-25	48%	Petunia x hybrida
79	G353	13609069	1.10E-22	49%	Solanum tuberosum
79	G353	10944068	2.10E-22	46%	Lycopersicon esculentum
79	G353	9902077	2.80E-22	43%	Glycine max
79	G353	9671296	6.80E-21	51%	Medicago truncatula
79	G353	14624986	1.30E-18	46%	Oryza sativa
79	G353	9445290	1.60E-17	57%	Triticum aestivum
79	G353	13954793	1.80E-16	38%	Brassica oleracea
81	G354	2346975	2.10E-26	47%	Petunia x hybrida
81	G354	1128930	2.00E-25	69%	Brassica rapa
81	G354	13609069	2.00E-23	48%	Solanum tuberosum
81	G354	5604211	1.10E-22	46%	Lycopersicon esculentum
81	G354	11914442	5.90E-21	46%	Medicago truncatula
81	G354	9902077	4.60E-20	50%	Glycine max
81	G354	14624986	4.20E-16	44%	Oryza sativa
83	G357	5777143	2.90E-09	47%	Medicago truncatula
83	G357	7245280	9.80E-07	30%	Mentha x piperita
83	G357	7959290	3.90E-06	32%	Petunia x hybrida
83	G357	12586540	6.70E-06	39%	Solanum tuberosum
83	G357	14595180	1.30E-05	38%	Oryza sativa
83	G357	5042778	9.10E-05	35%	Sorghum halepense
83	G357	7590257	0.00048	30%	Glycine max
83	G357	9303246	0.0036	35%	Sorghum bicolor
83	G357	12502391	0.016	28%	Sorghum propinquum
83	G357	3297887	0.028	39%	Medicago sativa subsp. X varia
85	G364	13353895	5.00E-26	74%	Gossypium arboreum
85	G364	11689211	6.00E-24	72%	Glycine max

85	G364	8329902	5.60E-20	49%	Mesembryanthemum crystallinum
85	G364	6534259	3.00E-19	66%	Lycopersicon esculentum
85	G364	13367894	2.60E-13	48%	Medicago truncatula
85	G364	8707971	3.10E-13	40%	Hordeum vulgare
85	G364	14577494	4.50E-13	57%	Gossypium hirsutum
85	G364	11542599	3.80E-12	80%	Triticum aestivum
85	G364	3854369	2.10E-11	59%	Populus tremula x Populus tremuloides
85	G364	14267549	6.40E-10	54%	Solanum tuberosum
87	G385	1173621	2.80E-241	74%	Phalaenopsis sp. SM9108
87	G385	8920426	1.20E-211	74%	Zea mays
87	G385	12002852	1.20E-198	74%	Picea abies
87	G385	3925362	2.20E-115	63%	Malus domestica
87	G385	13346175	7.10E-96	44%	Gossypium hirsutum
87	G385	13350562	3.70E-93	82%	Gossypium arboreum
87	G385	7327253	3.40E-76	77%	Glycine max
87	G385	1208939	7.70E-75	43%	Helianthus annuus
87	G385	6984381	1.50E-73	38%	Oryza sativa
87	G385	9855115	4.20E-70	80%	Sorghum bicolor
89	G396	1234899	1.40E-63	90%	Glycine max
89	G396	13350674	7.80E-62	84%	Gossypium arboreum
89	G396	1160483	6.80E-60	62%	Pimpinella brachycarpa
89	G396	992597	4.00E-57	64%	Lycopersicon esculentum
89	G396	8919872	2.80E-46	86%	Capsella rubella
89	G396	6634482	1.70E-44	63%	Oryza sativa
89	G396	13782564	9.20E-41	78%	Medicago truncatula
89	G396	1032371	2.70E-40	61%	Helianthus annuus
89	G396	13615149	9.60E-38	65%	Solanum tuberosum
89	G396	8088109	6.10E-36	88%	Sorghum bicolor
91	G439	6454441	1.00E-38	51%	Glycine max
91	G439	13598413	1.30E-36	60%	Medicago truncatula
91	G439	14366631	8.90E-34	51%	Sorghum bicolor
91	G439	12628171	1.10E-33	53%	Lycopersicon esculentum
91	G439	3857766	1.80E-31	53%	Populus balsamifera subsp. trichocarpa
91	G439	8571475	2.30E-31	61%	Atriplex hortensis
91	G439	13156084	3.60E-31	51%	Hordeum vulgare
91	G439	9562547	3.20E-30	61%	Solanum tuberosum
93	G464	6527230	7.10E-31	53%	Lycopersicon esculentum
93	G464	14571418	1.20E-29	47%	Oryza sativa
93	G464	12975927	2.60E-26	57%	Mesembryanthemum crystallinum
93	G464	9305572	2.10E-22	50%	Sorghum bicolor
93	G464	6604917	1.30E-21	48%	Medicago truncatula
93	G464	5058123	4.60E-21	46%	Glycine max
93	G464	13121193	2.20E-18	57%	Hordeum vulgare
93	G464	5044476	1.40E-17	53%	Gossypium hirsutum
93	G464	14491895	6.10E-17	82%	Populus tremula x Populus tremuloides
93	G464	13247730	4.10E-16	54%	Gossypium arboreum
95	G477	13613890	9.60E-31	56%	Solanum tuberosum
95	G477	11898694	1.00E-25	41%	Medicago truncatula
95	G477	14125394	1.10E-25	55%	Glycine max
95	G477	13352192	1.70E-25	63%	Gossypium arboreum
95	G477	1183865	4.50E-25	43%	Antirrhinum majus
95	G477	8107996	5.50E-25	55%	Lycopersicon esculentum

95	G477	6827444	6.60E-25	54%	Zea mays
95	G477	11565868	3.50E-24	61%	Triticum aestivum
95	G477	9851238	4.50E-23	65%	Sorghum bicolor
95	G477	6917264	1.90E-22	50%	Lycopersicon pennellii
97	G490	6069260	1.80E-09	52%	Ceratodon purpureus
97	G490	9856470	3.40E-09	47%	Sorghum bicolor
97	G490	11274399	3.60E-09	47%	Glycine max
97	G490	9504314	4.10E-09	47%	Lycopersicon esculentum
97	G490	13615996	5.80E-09	50%	Solanum tuberosum
97	G490	2801356	6.80E-09	51%	Oryza sativa
97	G490	10706047	1.00E-08	47%	Medicago truncatula
97	G490	13127534	1.40E-08	49%	Pinus taeda
97	G490	9426240	2.00E-08	49%	Triticum turgidum subsp. durum
97	G490	6918056	4.30E-08	45%	Lycopersicon pennellii
99	G545	4666359	1.60E-54	58%	Datisca glomerata
99	G545	7228328	7.30E-52	55%	Medicago sativa
99	G545	13597929	1.10E-51	55%	Medicago truncatula
99	G545	1763062	2.50E-51	57%	Glycine max
99	G545	11551478	3.00E-43	54%	Mesembryanthemum crystallinum
99	G545	13354107	4.40E-40	58%	Gossypium arboreum
99	G545	14204896	5.20E-40	58%	Glycine clandestina
99	G545	14490967	6.80E-40	58%	Populus tremula x Populus tremuloides
99	G545	439492	7.70E-39	59%	Petunia x hybrida
99	G545	4382658	3.40E-38	54%	Lycopersicon esculentum
101	G557	13151034	1.60E-61	92%	Descurainia sophia
101	G557	6018698	2.80E-48	85%	Lycopersicon esculentum
101	G557	14268141	1.40E-46	86%	Solanum tuberosum
101	G557	3858164	1.80E-36	66%	Populus balsamifera subsp. trichocarpa
101	G557	6845776	2.30E-36	85%	Glycine max
101	G557	2104676	1.00E-31	82%	Vicia faba
101	G557	14020953	4.50E-21	85%	Oryza sativa
101	G557	3244152	1.20E-18	89%	Mesembryanthemum crystallinum
101	G557	14243544	4.10E-16	80%	Zea mays
101	G557	9847254	2.10E-14	75%	Sorghum bicolor
103	G568	9858163	2.40E-31	42%	Populus balsamifera subsp. trichocarpa X
103	G568	11065432	1.80E-05	54%	Lotus japonicus
103	G568	9682279	2.10E-05	80%	Medicago truncatula
103	G568	9960759	0.0014	20%	Ceratopteris richardii
103	G568	13936410	0.0017	60%	Oryza sativa
103	G568	9740366	0.0023	70%	Triticum aestivum
103	G568	1060934	0.027	42%	Zea mays
103	G568	8547622	0.051	58%	Sorghum bicolor
103	G568	10237462	0.065	51%	Glycine max
103	G568	3273763	0.098	39%	Helianthus annuus
105	G580	9858163	5.00E-11	41%	Populus balsamifera subsp. trichocarpa X
105	G580	9740366	8.20E-09	64%	Triticum aestivum
105	G580	12635226	0.00049	36%	Lycopersicon esculentum
105	G580	9865675	0.0012	40%	Oryza sativa
105	G580	9962989	0.007	44%	Cryptomeria japonica
105	G580	14594091	0.024	53%	Sorghum bicolor
105	G580	11222458	0.035	61%	Aegilops speltoides
105	G580	4521844	0.046	39%	Citrullus lanatus

105	G580	10237462	0.075	62%	Glycine max
105	G580	14208387	0.082	57%	Zea mays
107	G590	7796754	4.90E-29	77%	Glycine max
107	G590	3952324	7.30E-15	57%	Oryza sativa
107	G590	4380303	8.20E-14	95%	Lycopersicon esculentum
107	G590	11607573	3.70E-08	87%	Medicago truncatula
107	G590	10448669	1.40E-05	75%	Solanum tuberosum
107	G590	14490722	0.014	75%	Populus tremula x Populus tremuloides
107	G590	12506577	0.015	71%	Sorghum propinquum
107	G590	13120250	0.054	95%	Hordeum vulgare
107	G590	9853784	0.19	75%	Sorghum bicolor
107	G590	1668906	0.6	79%	Citrus sinensis
109	G594	14149111	1.40E-49	43%	Bruguiera gymnorhiza
109	G594	10238978	1.70E-32	73%	Glycine max
109	G594	5050269	2.00E-28	65%	Gossypium hirsutum
109	G594	9465625	2.10E-28	65%	Hordeum vulgare
109	G594	8070732	5.30E-28	61%	Solanum tuberosum
109	G594	11114905	5.70E-28	66%	Triticum monococcum
109	G594	11204345	6.30E-28	56%	Gossypium arboreum
109	G594	13779941	1.10E-27	65%	Medicago truncatula
109	G594	12617849	3.80E-27	65%	Sorghum propinquum
109	G594	12499833	3.80E-27	65%	Sorghum bicolor
111	G599	13151095	6.20E-70	82%	Descurainia sophia
111	G599	5047235	3.50E-58	67%	Gossypium hirsutum
111	G599	9198983	7.40E-52	85%	Medicago truncatula
111	G599	11603857	1.00E-44	76%	Pinus taeda
111	G599	8996133	2.20E-42	79%	Suaeda maritima subsp. salsa
111	G599	12587938	5.60E-30	53%	Solanum tuberosum
111	G599	13086478	4.40E-29	40%	Hordeum vulgare
111	G599	12864902	3.70E-28	72%	Triticum aestivum
111	G599	13356325	7.30E-28	75%	Gossypium arboreum
111	G599	7721502	2.10E-26	47%	Lotus japonicus
113	G635	9672608	2.30E-36	64%	Medicago truncatula
113	G635	13247341	2.70E-34	61%	Gossypium arboreum
113	G635	7692497	2.30E-25	70%	Glycine max
113	G635	12587524	8.90E-25	57%	Solanum tuberosum
113	G635	6865128	7.90E-22	64%	Zea mays
113	G635	9308130	6.80E-21	62%	Sorghum bicolor
113	G635	14314409	1.60E-14	63%	Triticum aestivum
113	G635	7614685	4.60E-14	71%	Lotus japonicus
113	G635	11605985	1.20E-07	42%	Pinus taeda
113	G635	8104769	1.90E-05	30%	Lycopersicon esculentum
115	G638	11911841	1.70E-44	82%	Medicago truncatula
115	G638	20248	2.50E-29	72%	Oryza sativa
115	G638	5275293	3.30E-27	60%	Lycopersicon esculentum
115	G638	13646985	2.50E-24	44%	Pisum sativum
115	G638	9819632	4.90E-22	64%	Glycine max
115	G638	7723569	3.00E-20	62%	Lotus japonicus
115	G638	12035646	1.40E-14	50%	Hordeum vulgare
115	G638	14492446	5.00E-13	46%	Populus tremula x Populus tremuloides
115	G638	5049785	3.80E-12	51%	Gossypium hirsutum
115	G638	13357139	5.90E-11	74%	Gossypium arboreum

117	G671	9264503	8.50E-45	66%	Glycine max
117	G671	5269878	4.40E-44	42%	Lycopersicon esculentum
117	G671	14267068	3.30E-43	75%	Solanum tuberosum
117	G671	8529223	1.60E-42	46%	Medicago truncatula
117	G671	13120158	1.60E-41	52%	Hordeum vulgare
117	G671	20562	3.80E-41	68%	Petunia x hybrida
117	G671	5048991	9.10E-41	75%	Gossypium hirsutum
117	G671	7535969	1.90E-39	72%	Sorghum bicolor
117	G671	8379641	5.00E-39	70%	Gossypium arboreum
117	G671	5268844	9.70E-39	71%	Zea mays
119	G680	9258166	1.10E-35	52%	Glycine max
119	G680	9255178	5.80E-29	88%	Zea mays
119	G680	5274804	2.30E-27	48%	Lycopersicon esculentum
119	G680	14365392	1.40E-25	47%	Sorghum bicolor
119	G680	4974199	9.60E-22	45%	Oryza sativa
119	G680	3325786	4.00E-21	59%	Gossypium hirsutum
119	G680	13372384	2.60E-18	78%	Medicago truncatula
121	G716	7339690	3.30E-84	46%	Oryza sativa
121	G716	13611787	5.30E-60	70%	Solanum tuberosum
121	G716	12492360	2.10E-48	70%	Glycine max
121	G716	14314698	1.20E-47	66%	Triticum aestivum
121	G716	5272309	5.30E-46	70%	Lycopersicon esculentum
121	G716	5047367	3.40E-43	62%	Gossypium hirsutum
121	G716	5296108	1.80E-39	67%	Zea mays
121	G716	13587793	1.40E-37	68%	Sorghum propinquum
121	G716	14569785	3.50E-37	65%	Sorghum bicolor
121	G716	7563870	2.10E-28	71%	Medicago truncatula
123	G736	7409627	2.70E-37	57%	Lycopersicon esculentum
123	G736	9197391	1.50E-31	63%	Medicago truncatula
123	G736	9565250	6.60E-27	60%	Glycine max
123	G736	9419494	9.20E-27	56%	Hordeum vulgare
123	G736	14317796	5.70E-26	50%	Triticum aestivum
123	G736	7328718	2.50E-25	66%	Oryza sativa
123	G736	14527280	9.30E-25	78%	Hordeum vulgare subsp. spontaneum
123	G736	853689	1.00E-24	81%	Cucurbita maxima
123	G736	7535776	1.30E-24	65%	Sorghum bicolor
123	G736	3929324	9.30E-21	80%	Dendrobium grex Madame Thong-IN
125	G748	853689	1.10E-86	54%	Cucurbita maxima
125	G748	7242897	6.10E-59	39%	Oryza sativa
125	G748	13369544	1.20E-45	52%	Medicago truncatula
125	G748	5888560	1.90E-45	47%	Lycopersicon esculentum
125	G748	12689026	1.00E-39	50%	Glycine max
125	G748	14527280	2.10E-36	41%	Hordeum vulgare subsp. spontaneum
125	G748	7535776	7.90E-33	59%	Sorghum bicolor
125	G748	14317796	1.20E-31	45%	Triticum aestivum
125	G748	9419494	3.30E-31	56%	Hordeum vulgare
125	G748	3929324	6.80E-25	52%	Dendrobium grex Madame Thong-IN
127	G779	5725018	1.40E-34	79%	Brassica rapa subsp. pekinensis
127	G779	14011897	3.00E-28	62%	Glycine max
127	G779	9456677	2.00E-26	65%	Lycopersicon esculentum
127	G779	13260845	8.50E-23	58%	Hordeum vulgare
127	G779	12641875	8.80E-23	54%	Oryza sativa

127	G779	13586009	5.20E-20	61%	Sorghum bicolor
127	G779	14244918	7.80E-19	71%	Zea mays
127	G779	13588928	4.30E-13	73%	Sorghum propinquum
127	G779	13178928	1.70E-09	40%	Solanum tuberosum
127	G779	13781960	8.00E-09	44%	Medicago truncatula
129	G789	11607573	6.00E-27	55%	Medicago truncatula
129	G789	13609203	4.20E-24	47%	Solanum tuberosum
129	G789	12487590	2.30E-22	83%	Glycine max
129	G789	8858993	2.10E-20	41%	Oryza sativa
129	G789	9853784	3.90E-17	53%	Sorghum bicolor
129	G789	14490722	3.40E-16	70%	Populus tremula x Populus tremuloides
129	G789	12506577	3.80E-16	70%	Sorghum propinquum
129	G789	9429353	8.20E-15	57%	Lycopersicon esculentum
129	G789	13256814	1.70E-10	47%	Hordeum vulgare
129	G789	13393435	0.00045	46%	Zea mays
131	G791	13782914	1.20E-64	76%	Medicago truncatula
131	G791	12488078	3.50E-63	80%	Glycine max
131	G791	7339037	4.70E-61	75%	Lycopersicon esculentum
131	G791	14264292	3.10E-55	73%	Solanum tuberosum
131	G791	13350742	2.10E-54	71%	Gossypium arboreum
131	G791	9826607	5.40E-53	71%	Mesembryanthemum crystallinum
131	G791	9959658	1.30E-39	52%	Ceratopteris richardii
131	G791	11566416	3.30E-38	54%	Triticum aestivum
131	G791	4718747	4.00E-38	61%	Marchantia polymorpha
133	G801	13782478	3.50E-52	62%	Medicago truncatula
133	G801	9253770	1.40E-41	62%	Solanum tuberosum
133	G801	9509112	1.40E-38	61%	Lycopersicon esculentum
133	G801	13356764	1.70E-36	56%	Gossypium arboreum
133	G801	9900545	2.00E-34	81%	Glycine max
133	G801	13382401	1.20E-33	77%	Euphorbia esula
133	G801	7217321	2.30E-26	66%	Sorghum bicolor
133	G801	7777895	3.40E-26	65%	Lotus japonicus
133	G801	13088773	3.70E-26	68%	Hordeum vulgare
133	G801	13603473	9.40E-26	56%	Oryza sativa
135	G804	13180482	2.00E-47	50%	Solanum tuberosum
135	G804	6529964	6.20E-40	57%	Lycopersicon esculentum
135	G804	13248919	4.20E-36	58%	Gossypium arboreum
135	G804	5049350	5.90E-36	61%	Gossypium hirsutum
135	G804	7570545	3.00E-35	72%	Medicago truncatula
135	G804	13603473	4.40E-35	41%	Oryza sativa
135	G804	7777895	6.30E-34	82%	Lotus japonicus
135	G804	6859269	1.70E-32	85%	Sorghum bicolor
135	G804	13088773	5.00E-31	79%	Hordeum vulgare
135	G804	9900545	2.40E-29	72%	Glycine max
137	G805	5731256	1.00E-50	61%	Gossypium hirsutum
137	G805	13248747	1.30E-48	80%	Gossypium arboreum
137	G805	7570545	2.10E-41	73%	Medicago truncatula
137	G805	13603473	4.00E-41	75%	Oryza sativa
137	G805	12630853	2.50E-40	71%	Lycopersicon esculentum
137	G805	7777895	5.70E-40	71%	Lotus japonicus
137	G805	7217321	6.20E-40	72%	Sorghum bicolor
137	G805	13088773	2.70E-39	67%	Hordeum vulgare

137	G805	13180482	1.20E-33	52%	Solanum tuberosum
137	G805	9900545	1.10E-29	57%	Glycine max
139	G812	14595166	5.00E-57	54%	Oryza sativa
139	G812	14525201	5.50E-48	72%	Hordeum vulgare subsp. vulgare
139	G812	19489	4.10E-47	67%	Lycopersicon peruvianum
139	G812	9193005	2.50E-46	50%	Medicago truncatula
139	G812	5893630	4.40E-44	68%	Lycopersicon esculentum
139	G812	14264055	2.00E-42	71%	Solanum tuberosum
139	G812	9861074	1.40E-39	76%	Hordeum vulgare
139	G812	12488268	2.30E-39	65%	Glycine max
139	G812	3550551	7.10E-37	75%	Pisum sativum
139	G812	5048034	8.40E-37	73%	Gossypium hirsutum
141	G849	12043532	1.70E-83	53%	Catharanthus roseus
141	G849	396196	2.00E-63	52%	Petroselinum crispum
141	G849	483443	8.30E-54	76%	Zea mays
141	G849	9716452	8.10E-45	75%	Oryza sativa
141	G849	12628974	1.10E-44	74%	Lycopersicon esculentum
141	G849	13372006	7.00E-44	77%	Medicago truncatula
141	G849	14205474	1.70E-43	74%	Glycine max
141	G849	5050138	1.10E-39	71%	Gossypium hirsutum
141	G849	13614070	1.20E-34	69%	Solanum tuberosum
141	G849	12030466	5.80E-32	62%	Hordeum vulgare
143	G913	4090084	3.70E-82	79%	Brassica napus
143	G913	5892591	1.20E-44	56%	Lycopersicon esculentum
143	G913	10698975	3.70E-31	52%	Medicago truncatula
143	G913	12003381	4.00E-28	43%	Nicotiana tabacum
143	G913	10765035	3.90E-27	48%	Oryza sativa
143	G913	3326827	8.30E-26	58%	Gossypium hirsutum
143	G913	9564630	1.50E-25	53%	Glycine max
143	G913	13608799	3.70E-25	40%	Solanum tuberosum
143	G913	13151279	4.00E-24	55%	Descurainia sophia
143	G913	12225915	5.70E-23	42%	Zea mays
145	G921	11493821	4.10E-62	50%	Petroselinum crispum
145	G921	6472584	1.00E-54	50%	Nicotiana tabacum
145	G921	13597776	2.50E-48	50%	Medicago truncatula
145	G921	4387628	5.80E-41	87%	Lycopersicon esculentum
145	G921	5820418	7.20E-41	55%	Glycine max
145	G921	8440065	1.10E-38	45%	Gossypium hirsutum
145	G921	8205146	3.90E-31	90%	Oryza sativa
147	G939	14280041	2.80E-96	56%	Lycopersicon esculentum
147	G939	13121845	1.50E-86	51%	Zea mays
147	G939	4239844	3.60E-86	46%	Nicotiana tabacum
147	G939	14572047	1.70E-83	41%	Cucumis melo
147	G939	7739794	1.10E-77	44%	Dianthus caryophyllus
147	G939	10241606	1.40E-77	51%	Fagus sylvatica
147	G939	14595158	5.10E-71	60%	Oryza sativa
147	G939	13179725	5.20E-71	57%	Solanum tuberosum
147	G939	13779965	1.40E-70	61%	Medicago truncatula
147	G939	11680385	2.00E-65	62%	Sorghum propinquum
149	G940	10241606	4.80E-155	57%	Fagus sylvatica
149	G940	4239844	1.40E-100	63%	Nicotiana tabacum
149	G940	14572047	2.20E-99	60%	Cucumis melo

149	G940	14280039	5.00E-98	59%	Lycopersicon esculentum
149	G940	13121845	1.60E-94	50%	Zea mays
149	G940	7739794	7.00E-94	58%	Dianthus caryophyllus
149	G940	13779965	1.40E-86	69%	Medicago truncatula
149	G940	13180424	3.50E-83	68%	Solanum tuberosum
149	G940	11680385	2.10E-79	75%	Sorghum propinquum
149	G940	11206259	8.50E-74	64%	Gossypium arboreum
151	G977	19506	1.70E-51	56%	Lupinus polyphyllus
151	G977	11550305	2.50E-43	51%	Mesembryanthemum crystallinum
151	G977	9677591	3.60E-43	75%	Medicago truncatula
151	G977	12632736	2.70E-42	89%	Lycopersicon esculentum
151	G977	8282560	1.20E-41	85%	Glycine max
151	G977	13486923	3.90E-33	47%	Oryza sativa
151	G977	5859978	6.80E-31	60%	Pinus taeda
151	G977	13589596	8.90E-31	67%	Sorghum propinquum
151	G977	9561886	1.70E-21	92%	Solanum tuberosum
151	G977	5056299	6.80E-21	64%	Brassica rapa subsp. pekinensis
153	G979	13614050	1.60E-54	46%	Solanum tuberosum
153	G979	11911526	3.00E-41	100%	Medicago truncatula
153	G979	7795291	8.90E-37	69%	Glycine max
153	G979	13936410	7.00E-36	66%	Oryza sativa
153	G979	5889677	5.70E-33	96%	Lycopersicon esculentum
153	G979	1103747	1.20E-26	65%	Zea mays
153	G979	12311029	2.80E-26	69%	Brassica napus
153	G979	1128833	2.30E-22	60%	Brassica rapa
153	G979	12506156	2.20E-20	65%	Sorghum propinquum
153	G979	14569939	7.20E-17	80%	Sorghum bicolor
155	G1000	7337250	1.00E-44	75%	Lycopersicon esculentum
155	G1000	12586447	1.60E-42	69%	Solanum tuberosum
155	G1000	8381332	1.70E-42	52%	Gossypium arboreum
155	G1000	11413243	1.50E-41	43%	Glycine max
155	G1000	9609565	1.70E-41	71%	Triticum aestivum
155	G1000	13109344	3.40E-41	68%	Hordeum vulgare
155	G1000	9661893	1.20E-40	76%	Secale cereale
155	G1000	5268844	2.30E-40	75%	Zea mays
155	G1000	11912207	3.90E-40	70%	Medicago truncatula
155	G1000	20562	3.20E-38	32%	Petunia x hybrida
157	G1012	13094241	8.60E-34	76%	Oryza sativa
157	G1012	6725806	2.20E-31	80%	Glycine max
157	G1012	5272716	3.50E-28	54%	Lycopersicon esculentum
157	G1012	13607456	1.30E-27	52%	Solanum tuberosum
157	G1012	11910731	1.20E-26	55%	Medicago truncatula
157	G1012	9304207	2.70E-22	68%	Sorghum bicolor
157	G1012	7243988	2.80E-21	68%	Mentha x piperita
157	G1012	7721184	3.40E-21	62%	Lotus japonicus
157	G1012	5916563	4.00E-21	51%	Mesembryanthemum crystallinum
157	G1012	9862228	1.60E-20	68%	Triticum aestivum
159	G1014	391884	5.10E-12	47%	Oryza sativa
159	G1014	1046277	3.70E-09	52%	Phaseolus vulgaris
159	G1014	2661459	7.80E-09	54%	Populus balsamifera subsp. trichocarpa
159	G1014	10255255	8.30E-09	88%	Glycine max
159	G1014	1730474	2.30E-07	44%	Hordeum vulgare

159	G1014	6548283	3.40E-06	61%	Chlamydomonas reinhardtii
159	G1014	7801373	3.60E-06	77%	Triticum aestivum
159	G1014	5830776	1.70E-05	84%	Vitis labrusca
159	G1014	5830783	1.70E-05	84%	Vitis vinifera
159	G1014	5419910	1.70E-05	65%	Lactuca sativa
161	G1040	10807969	3.40E-18	67%	Solanum tuberosum
161	G1040	13252279	1.30E-17	90%	Glycine max
161	G1040	3854406	2.20E-16	83%	Populus tremula x Populus tremuloides
161	G1040	5607837	2.70E-16	78%	Zea mays
161	G1040	4120907	6.70E-15	54%	Oryza sativa
161	G1040	4382776	1.90E-11	88%	Lycopersicon esculentum
161	G1040	9192145	2.00E-06	66%	Medicago truncatula
161	G1040	8331827	6.20E-05	66%	Mesembryanthemum crystallinum
161	G1040	13086701	6.30E-05	66%	Hordeum vulgare
161	G1040	12775111	0.00021	55%	Sorghum bicolor
163	G1050	6534392	2.40E-60	61%	Lycopersicon esculentum
163	G1050	3326661	1.90E-41	62%	Gossypium hirsutum
163	G1050	4586585	2.50E-39	71%	Cicer arietinum
163	G1050	14012046	4.80E-39	59%	Glycine max
163	G1050	13373347	3.70E-34	49%	Medicago truncatula
163	G1050	14589577	6.70E-27	32%	Oryza sativa
163	G1050	9361521	8.20E-27	42%	Triticum aestivum
163	G1050	13355625	2.80E-23	59%	Gossypium arboreum
163	G1050	14489543	1.50E-20	87%	Populus tremula x Populus tremuloides
163	G1050	13258496	5.30E-19	74%	Hordeum vulgare
165	G1052	8096563	4.10E-47	47%	Oryza sativa
165	G1052	12490997	1.20E-39	84%	Glycine max
165	G1052	11200747	1.60E-39	49%	Gossypium arboreum
165	G1052	11543040	2.10E-34	76%	Triticum aestivum
165	G1052	11680536	4.30E-31	76%	Sorghum propinquum
165	G1052	4647238	9.80E-28	69%	Zea mays
165	G1052	5046863	8.70E-26	51%	Gossypium hirsutum
165	G1052	10805521	6.30E-25	82%	Lycopersicon esculentum
165	G1052	9418441	1.80E-23	74%	Hordeum vulgare
165	G1052	14366186	9.00E-23	79%	Sorghum bicolor
167	G1063	9456677	1.40E-41	57%	Lycopersicon esculentum
167	G1063	7926519	1.10E-40	80%	Glycine max
167	G1063	5725018	5.10E-32	70%	Brassica rapa subsp. pekinensis
167	G1063	13027303	2.00E-25	63%	Oryza sativa
167	G1063	13260845	3.10E-25	58%	Hordeum vulgare
167	G1063	13586009	2.40E-22	65%	Sorghum bicolor
167	G1063	14244918	1.80E-21	57%	Zea mays
167	G1063	13588928	8.10E-19	88%	Sorghum propinquum
167	G1063	7778526	1.50E-12	38%	Lotus japonicus
167	G1063	11906035	1.30E-11	52%	Medicago truncatula
169	G1064	5731256	3.10E-61	64%	Gossypium hirsutum
169	G1064	11200046	1.80E-51	67%	Gossypium arboreum
169	G1064	7411111	4.70E-51	60%	Lycopersicon esculentum
169	G1064	13603473	1.40E-45	42%	Oryza sativa
169	G1064	7570545	2.30E-42	63%	Medicago truncatula
169	G1064	7777895	3.90E-41	77%	Lotus japonicus
169	G1064	6859269	3.60E-39	87%	Sorghum bicolor

169	G1064	13088773	4.50E-37	88%	Hordeum vulgare
169	G1064	13180482	9.40E-34	85%	Solanum tuberosum
169	G1064	6071900	1.20E-31	52%	Glycine max
171	G1067	12634639	6.40E-61	72%	Lycopersicon esculentum
171	G1067	7238733	7.20E-60	56%	Medicago truncatula
171	G1067	13676546	1.00E-51	44%	Oryza sativa
171	G1067	13117363	9.20E-47	58%	Hordeum vulgare
171	G1067	6846994	5.50E-45	56%	Glycine max
171	G1067	7615218	8.20E-42	62%	Lotus japonicus
171	G1067	13616976	3.20E-33	50%	Solanum tuberosum
171	G1067	11680459	4.90E-31	53%	Sorghum propinquum
173	G1070	13676546	5.30E-71	52%	Oryza sativa
173	G1070	7238733	6.20E-63	63%	Medicago truncatula
173	G1070	12634639	5.40E-57	63%	Lycopersicon esculentum
173	G1070	6848313	1.10E-54	64%	Glycine max
173	G1070	13117363	1.00E-49	60%	Hordeum vulgare
173	G1070	13616976	7.30E-47	56%	Solanum tuberosum
173	G1070	7615218	3.90E-44	59%	Lotus japonicus
173	G1070	9445090	1.80E-38	55%	Triticum aestivum
173	G1070	11680459	8.00E-31	66%	Sorghum propinquum
173	G1070	9840783	2.30E-30	50%	Secale cereale
175	G1075	13596946	6.00E-73	76%	Medicago truncatula
175	G1075	13676546	3.10E-57	67%	Oryza sativa
175	G1075	12634639	1.70E-53	63%	Lycopersicon esculentum
175	G1075	13117363	4.70E-50	56%	Hordeum vulgare
175	G1075	7777734	7.20E-49	79%	Lotus japonicus
175	G1075	10843924	2.80E-46	71%	Glycine max
175	G1075	13616976	2.90E-38	45%	Solanum tuberosum
175	G1075	9445090	1.60E-30	56%	Triticum aestivum
175	G1075	11680459	2.70E-30	51%	Sorghum propinquum
175	G1075	9689692	3.50E-27	65%	Pinus taeda
177	G1089	13027233	3.90E-148	48%	Oryza sativa
177	G1089	9985917	2.00E-67	78%	Glycine max
177	G1089	7564135	2.00E-59	79%	Medicago truncatula
177	G1089	11199427	2.00E-57	58%	Gossypium arboreum
177	G1089	13382405	9.30E-54	58%	Euphorbia esula
177	G1089	9733198	3.50E-51	52%	Zea mays
177	G1089	8547775	2.50E-40	75%	Sorghum bicolor
177	G1089	12504326	7.30E-33	51%	Sorghum propinquum
177	G1089	13128415	4.60E-26	49%	Pinus taeda
177	G1089	11528893	8.40E-26	72%	Solanum tuberosum
179	G1095	13616593	2.10E-40	53%	Solanum tuberosum
179	G1095	7569949	7.60E-36	64%	Medicago truncatula
179	G1095	7478803	6.10E-22	40%	Glycine max
179	G1095	12003385	3.70E-20	34%	Nicotiana tabacum
179	G1095	5050392	1.30E-16	36%	Gossypium hirsutum
179	G1095	11370756	1.80E-16	49%	Cryptomeria japonica
179	G1095	14569780	2.00E-16	51%	Sorghum bicolor
179	G1095	6917476	3.50E-16	31%	Lycopersicon pennellii
179	G1095	6530144	4.40E-16	34%	Lycopersicon esculentum
179	G1095	13955552	5.40E-16	35%	Brassica oleracea
181	G1134	10843005	1.30E-28	85%	Glycine max

181	G1134	10902265	2.90E-25	68%	Lycopersicon esculentum
181	G1134	10706231	1.70E-15	66%	Medicago truncatula
181	G1134	6166282	7.10E-13	55%	Pinus taeda
181	G1134	13065260	2.20E-10	64%	Sorghum bicolor
181	G1134	13094245	1.50E-08	46%	Oryza sativa
181	G1134	9364330	2.90E-08	88%	Triticum aestivum
181	G1134	13120586	4.60E-08	88%	Hordeum vulgare
181	G1134	13657118	9.60E-08	88%	Triticum monococcum
181	G1134	10448946	2.90E-06	76%	Solanum tuberosum
183	G1142	11912817	7.10E-57	60%	Medicago truncatula
183	G1142	6846597	1.80E-51	64%	Glycine max
183	G1142	4383684	1.50E-31	43%	Lycopersicon esculentum
183	G1142	8528381	1.50E-26	49%	Oryza sativa subsp. japonica
183	G1142	3325547	8.00E-20	36%	Mesembryanthemum crystallinum
183	G1142	3552831	7.00E-17	45%	Oryza sativa
183	G1142	3853240	3.10E-16	73%	Populus tremula x Populus tremuloides
183	G1142	13610814	7.40E-13	36%	Solanum tuberosum
183	G1142	8368355	4.20E-11	55%	Zea mays
183	G1142	9963127	1.60E-09	36%	Cryptomeria japonica
185	G1202	5734616	1.50E-161	42%	Oryza sativa
185	G1202	6752887	2.90E-157	41%	Malus domestica
185	G1202	13597711	1.10E-89	74%	Medicago truncatula
185	G1202	4384552	1.30E-83	66%	Lycopersicon esculentum
185	G1202	13260163	1.60E-81	60%	Hordeum vulgare
185	G1202	14365262	9.00E-78	63%	Sorghum bicolor
185	G1202	8996178	9.00E-74	54%	Suaeda maritima subsp. salsa
185	G1202	13355155	3.30E-73	80%	Gossypium arboreum
185	G1202	9827527	4.50E-69	68%	Mesembryanthemum crystallinum
185	G1202	13252216	3.30E-68	85%	Glycine max
187	G1229	13956715	2.00E-15	52%	Brassica oleracea
187	G1229	8284770	5.50E-15	36%	Glycine max
187	G1229	13370871	9.70E-15	37%	Medicago truncatula
187	G1229	13608226	2.40E-13	44%	Solanum tuberosum
187	G1229	10190769	8.70E-12	36%	Oryza sativa
187	G1229	11114703	3.10E-11	30%	Triticum monococcum
187	G1229	8328925	3.50E-11	37%	Mesembryanthemum crystallinum
187	G1229	14316814	1.20E-08	42%	Triticum aestivum
187	G1229	5858921	1.30E-07	39%	Pinus taeda
187	G1229	3641869	2.40E-07	33%	Cicer arietinum
189	G1242	10835265	9.90E-213	77%	Oryza sativa
189	G1242	6069767	6.80E-88	94%	Glycine max
189	G1242	5047504	6.90E-79	78%	Gossypium hirsutum
189	G1242	13152473	5.00E-65	87%	Sorghum bicolor
189	G1242	6194488	1.00E-62	81%	Zea mays
189	G1242	9251311	9.40E-62	87%	Solanum tuberosum
189	G1242	13116742	8.20E-61	72%	Hordeum vulgare
189	G1242	10903582	1.10E-44	92%	Lycopersicon esculentum
189	G1242	12505860	2.10E-44	92%	Sorghum propinquum
189	G1242	6555211	3.80E-41	87%	Pinus taeda
191	G1266	1732405	3.00E-50	53%	Nicotiana tabacum
191	G1266	13368736	3.20E-44	63%	Medicago truncatula
191	G1266	3326366	8.80E-39	68%	Gossypium hirsutum

191	G1266	7145976	4.90E-38	62%	Glycine max
191	G1266	5762854	1.40E-36	67%	Lotus japonicus
191	G1266	14578167	2.20E-33	58%	Oryza sativa
191	G1266	7934594	1.30E-32	57%	Euphorbia esula
191	G1266	9431305	4.20E-28	58%	Lycopersicon esculentum
191	G1266	13610272	5.80E-21	48%	Solanum tuberosum
191	G1266	7528275	1.10E-20	69%	Mesembryanthemum crystallinum
193	G1267	13782821	7.60E-37	87%	Medicago truncatula
193	G1267	6529152	8.40E-37	80%	Lycopersicon esculentum
193	G1267	7749337	3.80E-35	81%	Lotus japonicus
193	G1267	4396148	3.50E-30	79%	Glycine max
193	G1267	12082351	5.40E-28	50%	Oryza sativa
193	G1267	13238864	5.40E-19	53%	Sorghum bicolor
193	G1267	13617613	9.10E-19	66%	Solanum tuberosum
195	G1275	3220212	4.30E-29	78%	Gossypium hirsutum
195	G1275	7219361	3.40E-27	76%	Sorghum bicolor
195	G1275	8956793	4.20E-27	63%	Oryza sativa
195	G1275	8903662	1.20E-26	74%	Hordeum vulgare
195	G1275	10709704	2.00E-25	74%	Glycine max
195	G1275	6532620	1.40E-23	76%	Lycopersicon esculentum
195	G1275	7562279	1.80E-20	58%	Medicago truncatula
195	G1275	9444636	6.50E-20	56%	Triticum aestivum
195	G1275	7721184	4.10E-19	64%	Lotus japonicus
195	G1275	13615256	5.30E-19	56%	Solanum tuberosum
197	G1311	9838972	7.00E-38	54%	Triticum aestivum
197	G1311	13558921	1.80E-36	70%	Zea mays
197	G1311	13368523	2.00E-36	57%	Medicago truncatula
197	G1311	13085250	2.70E-33	65%	Hordeum vulgare
197	G1311	7535568	2.90E-32	61%	Sorghum bicolor
197	G1311	5891412	6.70E-30	59%	Lycopersicon esculentum
197	G1311	11274958	2.10E-29	59%	Glycine max
197	G1311	5048991	6.30E-28	60%	Gossypium hirsutum
197	G1311	11967858	1.20E-27	72%	Oryza sativa
197	G1311	7244640	1.30E-27	56%	Mentha x piperita
199	G1318	6566416	5.10E-51	86%	Glycine max
199	G1318	7535969	2.60E-40	71%	Sorghum bicolor
199	G1318	13259997	3.60E-40	72%	Hordeum vulgare
199	G1318	11115896	7.00E-40	71%	Triticum aestivum
199	G1318	7564853	2.70E-39	65%	Medicago truncatula
199	G1318	12630953	2.00E-38	70%	Lycopersicon esculentum
199	G1318	2921339	4.90E-37	62%	Gossypium hirsutum
199	G1318	12975513	1.50E-35	64%	Mesembryanthemum crystallinum
199	G1318	13610740	8.30E-35	64%	Solanum tuberosum
199	G1318	7776223	1.50E-34	63%	Lotus japonicus
201	G1321	11201602	1.40E-50	72%	Gossypium arboreum
201	G1321	3855372	7.60E-48	87%	Populus tremula x Populus tremuloides
201	G1321	9563940	3.90E-45	84%	Glycine max
201	G1321	14040066	5.40E-44	85%	Oryza sativa
201	G1321	6536729	5.80E-44	69%	Medicago truncatula
201	G1321	7337340	1.40E-43	80%	Lycopersicon esculentum
201	G1321	12033965	1.30E-27	62%	Hordeum vulgare
201	G1321	12666184	7.30E-27	43%	Lupinus luteus

201	G1321	9962592	1.80E-26	52%	Cryptomeria japonica
201	G1321	11529409	4.40E-26	50%	Solanum tuberosum
203	G1323	8172759	1.40E-49	77%	Medicago truncatula
203	G1323	5139813	4.50E-48	80%	Glycine max
203	G1323	9508275	3.30E-46	80%	Lycopersicon esculentum
203	G1323	6552360	1.00E-43	77%	Nicotiana tabacum
203	G1323	1946264	2.00E-43	82%	Oryza sativa
203	G1323	9302672	5.30E-40	76%	Sorghum bicolor
203	G1323	8379641	6.80E-37	77%	Gossypium arboreum
203	G1323	9962450	1.30E-36	71%	Cryptomeria japonica
203	G1323	13106766	1.90E-34	64%	Hordeum vulgare
203	G1323	11116692	1.30E-33	73%	Triticum aestivum
205	G1326	11201602	1.60E-43	55%	Gossypium arboreum
205	G1326	9563940	2.70E-42	75%	Glycine max
205	G1326	3855372	2.50E-41	78%	Populus tremula x Populus tremuloides
205	G1326	6536729	3.90E-41	66%	Medicago truncatula
205	G1326	7337340	8.30E-40	69%	Lycopersicon esculentum
205	G1326	6979318	6.00E-37	42%	Oryza sativa
205	G1326	9954115	7.00E-28	59%	Solanum tuberosum
205	G1326	12033965	5.60E-27	60%	Hordeum vulgare
205	G1326	5045349	2.90E-26	55%	Gossypium hirsutum
205	G1326	12666184	4.00E-26	55%	Lupinus luteus
207	G1330	14249014	3.30E-65	45%	Gossypium hirsutum
207	G1330	5891412	5.80E-65	79%	Lycopersicon esculentum
207	G1330	1002799	5.20E-64	39%	Craterostigma plantagineum
207	G1330	13177577	3.80E-63	44%	Oryza sativa
207	G1330	13657362	1.60E-57	62%	Triticum monococcum
207	G1330	11274958	4.30E-56	93%	Glycine max
207	G1330	11914653	5.00E-56	89%	Medicago truncatula
207	G1330	13258821	4.80E-47	81%	Hordeum vulgare
207	G1330	7244640	3.60E-45	90%	Mentha x piperita
207	G1330	13537529	4.50E-42	90%	Lilium hybrid division I
209	G1367	13951181	1.10E-30	71%	Brassica oleracea
209	G1367	13151012	1.60E-26	64%	Descurainia sophia
209	G1367	14206232	1.60E-23	43%	Glycine max
209	G1367	555654	1.00E-21	37%	Nicotiana tabacum
209	G1367	7741344	3.30E-15	51%	Lotus japonicus
209	G1367	9358404	4.70E-15	46%	Triticum aestivum
209	G1367	13657796	1.10E-14	45%	Triticum monococcum
209	G1367	13782852	1.70E-14	56%	Medicago truncatula
209	G1367	4585618	4.00E-14	36%	Zea mays
209	G1367	4218140	4.30E-14	36%	Antirrhinum majus
211	G1399	9900930	4.50E-36	60%	Glycine max
211	G1399	9855791	1.60E-29	67%	Sorghum bicolor
211	G1399	13394516	1.80E-29	67%	Sorghum propinquum
211	G1399	13607200	2.00E-29	73%	Medicago truncatula
211	G1399	7009437	9.70E-27	58%	Zea mays
211	G1399	9839289	1.50E-26	62%	Secale cereale
211	G1399	13350712	4.30E-26	65%	Gossypium arboreum
211	G1399	13779174	4.20E-25	79%	Lycopersicon esculentum
211	G1399	9280727	1.00E-24	65%	Oryza sativa
211	G1399	13614480	2.80E-24	62%	Solanum tuberosum

213	G1411	7796858	1.20E-27	61%	Glycine max
213	G1411	9417297	1.60E-27	77%	Triticum aestivum
213	G1411	7206394	4.00E-27	66%	Medicago truncatula
213	G1411	9959995	2.50E-26	77%	Ceratopteris richardii
213	G1411	4387434	2.30E-25	68%	Lycopersicon esculentum
213	G1411	9660634	4.80E-25	53%	Secale cereale
213	G1411	569065	9.00E-24	72%	Oryza sativa
213	G1411	7788764	1.10E-22	80%	Lotus japonicus
215	G1419	790361	3.80E-43	55%	Nicotiana tabacum
215	G1419	8809574	2.10E-40	54%	Nicotiana sylvestris
215	G1419	7145938	7.60E-38	60%	Glycine max
215	G1419	13598098	1.80E-37	55%	Medicago truncatula
215	G1419	12231293	5.80E-37	54%	Lycopersicon esculentum
215	G1419	13306236	1.30E-29	60%	Euphorbia esula
215	G1419	7528275	1.00E-24	53%	Mesembryanthemum crystallinum
215	G1419	11034978	2.90E-24	47%	Oryza sativa
215	G1419	13609772	8.90E-24	68%	Solanum tuberosum
217	G1421	7560260	6.10E-35	57%	Medicago truncatula
217	G1421	2213784	1.40E-28	50%	Lycopersicon esculentum
217	G1421	3065894	9.20E-28	48%	Nicotiana tabacum
217	G1421	5295936	5.20E-25	38%	Oryza sativa
217	G1421	13179176	6.40E-24	46%	Solanum tuberosum
217	G1421	9900385	5.20E-22	56%	Glycine max
217	G1421	9959995	1.30E-20	77%	Ceratopteris richardii
217	G1421	9298423	2.70E-19	48%	Sorghum bicolor
219	G1435	13027307	9.50E-49	56%	Oryza sativa
219	G1435	9203811	7.30E-37	55%	Glycine max
219	G1435	9430136	8.10E-35	51%	Lycopersicon esculentum
219	G1435	9823921	1.90E-33	58%	Hordeum vulgare
219	G1435	5050706	6.50E-26	59%	Gossypium hirsutum
219	G1435	12501180	3.30E-20	47%	Sorghum bicolor
219	G1435	13610667	1.30E-19	55%	Solanum tuberosum
219	G1435	13661173	3.30E-19	43%	Zea mays
219	G1435	7614196	1.30E-18	56%	Lotus japonicus
219	G1435	11202176	2.80E-15	45%	Gossypium arboreum
221	G1449	12045957	2.00E-23	60%	Zea mays
221	G1449	9307315	3.30E-23	60%	Sorghum bicolor
221	G1449	8096366	9.50E-22	54%	Oryza sativa
221	G1449	11916215	2.70E-16	56%	Medicago truncatula
221	G1449	6454583	2.10E-14	40%	Glycine max
221	G1449	9503082	5.70E-14	36%	Lycopersicon esculentum
221	G1449	13098583	1.80E-13	66%	Hordeum vulgare
221	G1449	6136833	4.60E-13	35%	Cucumis sativus
221	G1449	14491895	2.60E-11	84%	Populus tremula x Populus tremuloides
221	G1449	7777277	3.60E-11	85%	Lotus japonicus
223	G1494	10806168	6.20E-18	44%	Solanum tuberosum
223	G1494	9853784	1.10E-17	57%	Sorghum bicolor
223	G1494	14490722	4.60E-17	73%	Populus tremula x Populus tremuloides
223	G1494	12506577	7.60E-16	65%	Sorghum propinquum
223	G1494	8827274	1.20E-13	65%	Glycine max
223	G1494	11607573	3.40E-13	44%	Medicago truncatula
223	G1494	13256814	3.40E-10	53%	Hordeum vulgare

223	G1494	12957695	9.30E-08	84%	Oryza sativa
223	G1494	9429353	2.60E-07	49%	Lycopersicon esculentum
223	G1494	7323707	1.70E-05	42%	Lycopersicon hirsutum
225	G1496	7283565	5.60E-29	84%	Glycine max
225	G1496	8070732	2.50E-23	78%	Solanum tuberosum
225	G1496	9301886	3.10E-23	76%	Sorghum bicolor
225	G1496	11204357	3.70E-23	60%	Gossypium arboreum
225	G1496	11025555	1.20E-22	78%	Oryza sativa subsp. japonica
225	G1496	12617849	8.00E-22	61%	Sorghum propinquum
225	G1496	5895175	8.70E-22	78%	Lycopersicon esculentum
225	G1496	14491609	1.20E-21	80%	Populus tremula x Populus tremuloides
225	G1496	9884144	3.30E-21	76%	Triticum aestivum
225	G1496	5050269	1.50E-20	76%	Gossypium hirsutum
227	G1499	5725018	1.30E-49	91%	Brassica rapa subsp. pekinensis
227	G1499	14011897	7.50E-32	60%	Glycine max
227	G1499	9456677	8.80E-31	58%	Lycopersicon esculentum
227	G1499	12641875	5.20E-25	44%	Oryza sativa
227	G1499	13260845	2.20E-24	52%	Hordeum vulgare
227	G1499	13586009	9.30E-21	64%	Sorghum bicolor
227	G1499	14244918	5.30E-20	68%	Zea mays
227	G1499	13588928	2.00E-15	77%	Sorghum propinquum
227	G1499	13781960	2.30E-11	43%	Medicago truncatula
227	G1499	13178928	1.90E-10	49%	Solanum tuberosum
229	G1514	13598970	2.90E-59	48%	Medicago truncatula
229	G1514	13257352	3.50E-41	42%	Hordeum vulgare
229	G1514	13198017	3.60E-35	46%	Euphorbia esula
229	G1514	9304036	6.30E-31	57%	Sorghum bicolor
229	G1514	14526826	1.50E-30	61%	Hordeum vulgare subsp. spontaneum
229	G1514	7304685	4.00E-30	46%	Zea mays
229	G1514	5342526	2.20E-29	40%	Glycine max
229	G1514	14525593	2.00E-26	45%	Hordeum vulgare subsp. vulgare
229	G1514	5903493	4.80E-21	43%	Pinus taeda
229	G1514	13349580	5.30E-20	43%	Gossypium arboreum
231	G1519	9837922	2.30E-60	54%	Oryza sativa
231	G1519	9292372	1.40E-39	72%	Lycopersicon esculentum
231	G1519	7324950	4.90E-39	72%	Lycopersicon pennellii
231	G1519	11689016	5.00E-26	77%	Glycine max
231	G1519	10807835	2.20E-22	67%	Solanum tuberosum
231	G1519	10704598	2.60E-19	65%	Medicago truncatula
231	G1519	6654164	1.40E-11	65%	Zea mays
233	G1521	4386105	5.30E-36	47%	Lycopersicon esculentum
233	G1521	5761343	0.00048	32%	Glycine max
233	G1521	11566375	0.00058	42%	Triticum aestivum
233	G1521	7557583	0.00066	34%	Medicago truncatula
233	G1521	10422887	0.0018	40%	Sorghum propinquum
233	G1521	11777228	0.0061	46%	Pinus taeda
233	G1521	3853821	0.016	37%	Populus tremula x Populus tremuloides
233	G1521	5050392	0.017	39%	Gossypium hirsutum
233	G1521	14486035	0.021	37%	Marsilea vestita
233	G1521	9250643	0.023	32%	Solanum tuberosum
235	G1526	7589119	9.50E-49	78%	Glycine max
235	G1526	13618967	3.40E-36	90%	Solanum tuberosum

235	G1526	6626379	1.20E-32	47%	Zea mays
235	G1526	14570042	1.70E-32	90%	Sorghum bicolor
235	G1526	5860353	1.80E-30	54%	Pinus taeda
235	G1526	11551753	6.40E-30	81%	Sorghum propinquum
235	G1526	14517639	2.50E-09	78%	Oryza sativa
235	G1526	6274572	2.10E-08	86%	Lycopersicon esculentum
235	G1526	11116070	5.10E-05	64%	Triticum aestivum
235	G1526	12037397	0.0017	64%	Hordeum vulgare
237	G1537	13921438	8.80E-28	70%	Glycine max
237	G1537	13027271	2.50E-25	62%	Oryza sativa
237	G1537	13921435	8.30E-25	65%	Zea mays
237	G1537	13239024	8.80E-25	67%	Sorghum bicolor
237	G1537	13606728	5.70E-20	58%	Medicago truncatula
237	G1537	12634935	1.90E-19	67%	Lycopersicon esculentum
237	G1537	8173101	3.10E-10	42%	Pinus taeda
237	G1537	3855585	1.20E-08	43%	Populus tremula x Populus tremuloides
237	G1537	13352341	2.80E-08	38%	Gossypium arboreum
237	G1537	9563395	4.80E-08	41%	Solanum tuberosum
239	G1543	5006850	4.90E-35	69%	Oryza sativa
239	G1543	5724902	8.00E-33	89%	Brassica rapa subsp. pekinensis
239	G1543	6666294	6.60E-31	55%	Glycine max
239	G1543	6528244	2.50E-28	54%	Lycopersicon esculentum
239	G1543	11605312	2.70E-28	58%	Pinus taeda
239	G1543	9961784	1.00E-24	61%	Cryptomeria japonica
239	G1543	13350674	4.70E-24	57%	Gossypium arboreum
239	G1543	7415619	8.60E-23	57%	Physcomitrella patens
239	G1543	1149534	4.00E-22	50%	Pimpinella brachycarpa
239	G1543	1032371	2.20E-21	46%	Helianthus annuus
241	G1574	13027254	5.70E-102	62%	Oryza sativa
241	G1574	5888592	1.20E-36	67%	Lycopersicon esculentum
241	G1574	6454652	3.30E-24	71%	Glycine max
241	G1574	10704284	6.40E-21	72%	Medicago truncatula
241	G1574	14570042	1.10E-19	52%	Sorghum bicolor
241	G1574	13618967	1.40E-18	51%	Solanum tuberosum
241	G1574	9741241	1.10E-16	40%	Triticum aestivum
241	G1574	12037397	5.90E-14	63%	Hordeum vulgare
241	G1574	4967130	1.50E-13	39%	Zea mays
241	G1574	11551753	2.40E-13	53%	Sorghum propinquum
243	G1586	13921433	1.60E-47	71%	Zea mays
243	G1586	13352341	3.00E-29	58%	Gossypium arboreum
243	G1586	3825485	5.20E-29	75%	Oryza sativa
243	G1586	9562970	1.40E-21	73%	Solanum tuberosum
243	G1586	8173101	3.10E-17	48%	Pinus taeda
243	G1586	13239024	5.40E-10	41%	Sorghum bicolor
243	G1586	8122845	1.10E-09	36%	Lycopersicon esculentum
243	G1586	7717752	5.30E-09	28%	Medicago truncatula
243	G1586	13787418	4.90E-08	42%	Glycine max
243	G1586	3955020	1.80E-07	41%	Populus tremula x Populus tremuloides
245	G1634	6341451	9.20E-59	53%	Glycine max
245	G1634	12005327	3.70E-55	54%	Hevea brasiliensis
245	G1634	6532515	2.60E-48	53%	Lycopersicon esculentum
245	G1634	13027309	2.30E-44	63%	Oryza sativa

245	G1634	9193590	5.40E-42	85%	Medicago truncatula
245	G1634	14017500	1.20E-36	64%	Solanum demissum
245	G1634	13612708	8.10E-36	62%	Solanum tuberosum
245	G1634	12640112	4.90E-34	59%	Lycopersicon pennellii
245	G1634	13258780	3.20E-30	61%	Hordeum vulgare
245	G1634	5047517	7.10E-30	60%	Gossypium hirsutum
247	G1635	5272360	1.10E-41	53%	Lycopersicon esculentum
247	G1635	13372384	3.90E-38	50%	Medicago truncatula
247	G1635	9565366	2.10E-35	94%	Glycine max
247	G1635	12588802	1.10E-25	41%	Solanum tuberosum
247	G1635	9852711	3.10E-23	81%	Sorghum bicolor
247	G1635	9255178	1.10E-17	81%	Zea mays
247	G1635	14490145	7.80E-14	64%	Populus tremula x Populus tremuloides
249	G1636	6070536	7.00E-58	55%	Glycine max
249	G1636	13612708	6.80E-52	50%	Solanum tuberosum
249	G1636	6688528	7.90E-52	50%	Lycopersicon esculentum
249	G1636	12640112	2.20E-49	50%	Lycopersicon pennellii
249	G1636	12005327	5.30E-37	54%	Hevea brasiliensis
249	G1636	9297742	3.20E-35	60%	Sorghum bicolor
249	G1636	14522862	7.90E-34	73%	Oryza sativa
249	G1636	13258780	8.60E-34	45%	Hordeum vulgare
249	G1636	7560641	1.00E-32	60%	Medicago truncatula
249	G1636	14017500	1.60E-27	48%	Solanum demissum
251	G1640	10697236	1.30E-40	35%	Oryza sativa
251	G1640	7590249	4.20E-40	73%	Glycine max
251	G1640	11526772	7.20E-39	80%	Zea mays
251	G1640	11526774	9.20E-39	80%	Zea mays subsp. parviglumis
251	G1640	13349614	9.40E-36	58%	Gossypium arboreum
251	G1640	4386269	1.30E-35	60%	Lycopersicon esculentum
251	G1640	7776053	4.90E-35	64%	Lotus japonicus
251	G1640	7244499	4.10E-34	82%	Mentha x piperita
251	G1640	19052	1.90E-33	75%	Hordeum vulgare
251	G1640	2921335	1.20E-31	84%	Gossypium hirsutum
253	G1641	12005327	4.10E-68	56%	Hevea brasiliensis
253	G1641	6532515	3.70E-63	59%	Lycopersicon esculentum
253	G1641	7639307	1.30E-50	76%	Glycine max
253	G1641	8468045	1.10E-47	58%	Oryza sativa
253	G1641	13612708	1.50E-39	73%	Solanum tuberosum
253	G1641	10704216	4.80E-39	59%	Medicago truncatula
253	G1641	12640112	6.70E-38	42%	Lycopersicon pennellii
253	G1641	5047517	1.70E-34	51%	Gossypium hirsutum
253	G1641	5043331	2.10E-34	80%	Sorghum halepense
253	G1641	9297742	1.80E-33	53%	Sorghum bicolor
255	G1646	11206827	3.50E-56	77%	Gossypium arboreum
255	G1646	13617166	1.70E-55	95%	Solanum tuberosum
255	G1646	7766532	4.00E-54	76%	Medicago truncatula
255	G1646	8789169	4.70E-49	87%	Citrus x paradisi
255	G1646	4386046	1.00E-43	75%	Lycopersicon esculentum
255	G1646	7590809	2.40E-43	78%	Glycine max
255	G1646	9856470	1.00E-36	68%	Sorghum bicolor
255	G1646	6918056	1.30E-31	81%	Lycopersicon pennellii
255	G1646	6069260	2.40E-29	61%	Ceratodon purpureus

255	G1646	14141694	3.80E-29	61%	Oryza sativa
257	G1667	7718401	1.60E-57	55%	Medicago truncatula
257	G1667	12634639	8.40E-52	65%	Lycopersicon esculentum
257	G1667	13676546	3.60E-49	64%	Oryza sativa
257	G1667	10843924	1.70E-43	70%	Glycine max
257	G1667	13117363	2.60E-42	55%	Hordeum vulgare
257	G1667	7615218	2.00E-40	67%	Lotus japonicus
257	G1667	13616976	1.90E-38	48%	Solanum tuberosum
257	G1667	9689692	1.60E-24	47%	Pinus taeda
257	G1667	11680459	4.90E-24	51%	Sorghum propinquum
257	G1667	9445090	1.30E-23	68%	Triticum aestivum
259	G1706	6531230	4.30E-21	69%	Lycopersicon esculentum
259	G1706	10237499	1.30E-19	86%	Glycine max
259	G1706	3950492	7.90E-19	80%	Oryza sativa
259	G1706	7568511	1.50E-17	70%	Medicago truncatula
259	G1706	11568155	6.40E-16	76%	Triticum aestivum
259	G1706	4967274	4.70E-14	69%	Gossypium hirsutum
259	G1706	9961855	4.90E-14	73%	Cryptomeria japonica
259	G1706	9250643	5.20E-14	69%	Solanum tuberosum
259	G1706	12031039	4.20E-13	50%	Hordeum vulgare
259	G1706	10710985	6.90E-13	63%	Pinus taeda
261	G1766	9795249	3.60E-59	67%	Oryza sativa
261	G1766	3853203	2.20E-55	80%	Populus tremula x Populus tremuloides
261	G1766	8405571	2.10E-51	77%	Hordeum vulgare
261	G1766	12628562	1.30E-50	76%	Lycopersicon esculentum
261	G1766	8746097	2.70E-50	84%	Medicago truncatula
261	G1766	9299477	3.90E-43	79%	Sorghum bicolor
261	G1766	6066594	8.90E-38	60%	Petunia x hybrida
261	G1766	9987193	4.50E-37	65%	Glycine max
261	G1766	6732155	7.50E-37	66%	Triticum monococcum
261	G1766	9420560	1.70E-36	60%	Triticum aestivum
263	G1782	13615211	7.40E-26	66%	Solanum tuberosum
263	G1782	5936788	1.50E-25	66%	Zea mays
263	G1782	13380949	2.10E-24	64%	Medicago truncatula
263	G1782	7067431	8.00E-24	59%	Physcomitrella patens
263	G1782	9414141	1.60E-23	63%	Triticum aestivum
263	G1782	9436958	4.30E-22	68%	Avena sativa
263	G1782	2826785	4.70E-21	64%	Oryza sativa
263	G1782	8996139	7.70E-21	73%	Suaeda maritima subsp. salsa
263	G1782	8381309	1.40E-19	50%	Gossypium arboreum
263	G1782	12493326	4.30E-19	56%	Glycine max
265	G1795	5274667	1.30E-36	70%	Lycopersicon esculentum
265	G1795	7249444	7.90E-29	62%	Oryza sativa
265	G1795	6724385	2.10E-27	61%	Glycine max
265	G1795	11911454	2.70E-25	50%	Medicago truncatula
265	G1795	13306236	3.30E-22	61%	Euphorbia esula
265	G1795	7528275	6.50E-21	58%	Mesembryanthemum crystallinum
265	G1795	6478844	7.00E-21	67%	Matricaria chamomilla
265	G1795	8980312	2.00E-20	51%	Catharanthus roseus
265	G1795	790362	2.90E-20	58%	Nicotiana tabacum
265	G1795	7777209	1.50E-19	68%	Lotus japonicus
267	G1804	2228770	9.10E-70	50%	Helianthus annuus

267	G1804	13027317	8.00E-30	42%	Oryza sativa
267	G1804	7406676	6.20E-27	52%	Vitis vinifera
267	G1804	13775110	5.60E-23	34%	Phaseolus vulgaris
267	G1804	8106216	2.00E-21	50%	Lycopersicon esculentum
267	G1804	14571807	7.90E-19	33%	Nicotiana tabacum
267	G1804	9962989	3.80E-18	65%	Cryptomeria japonica
267	G1804	8705850	2.50E-17	49%	Hordeum vulgare
267	G1804	13366372	3.10E-17	49%	Medicago truncatula
267	G1804	6482863	4.30E-16	67%	Glycine max
269	G1807	6534392	9.50E-68	65%	Lycopersicon esculentum
269	G1807	4586585	1.90E-54	72%	Cicer arietinum
269	G1807	9900728	1.90E-52	64%	Glycine max
269	G1807	3326661	2.00E-48	65%	Gossypium hirsutum
269	G1807	9683849	1.90E-41	97%	Medicago truncatula
269	G1807	13258496	2.20E-30	88%	Hordeum vulgare
269	G1807	9361521	8.00E-28	75%	Triticum aestivum
269	G1807	13355625	4.60E-27	48%	Gossypium arboreum
269	G1807	14489495	1.90E-25	97%	Populus tremula x Populus tremuloides
269	G1807	7720083	7.20E-23	54%	Lotus japonicus
271	G1835	403305	1.90E-33	46%	Nicotiana tabacum
271	G1835	13351428	4.50E-33	50%	Gossypium arboreum
271	G1835	4380161	3.50E-31	60%	Lycopersicon esculentum
271	G1835	7958945	1.60E-30	41%	Oryza sativa
271	G1835	9853752	7.70E-30	60%	Sorghum bicolor
271	G1835	11997053	1.00E-29	61%	Sorghum propinquum
271	G1835	8402807	1.90E-29	66%	Glycine max
271	G1835	11910669	5.10E-29	43%	Medicago truncatula
271	G1835	1128890	3.30E-27	92%	Brassica rapa
271	G1835	12019033	2.70E-26	76%	Triticum aestivum
273	G1836	7766532	6.30E-33	51%	Medicago truncatula
273	G1836	13609817	4.10E-30	45%	Solanum tuberosum
273	G1836	8789169	2.40E-29	50%	Citrus x paradisi
273	G1836	7590809	7.90E-29	55%	Glycine max
273	G1836	13350457	8.20E-29	53%	Gossypium arboreum
273	G1836	11542584	1.20E-27	50%	Triticum aestivum
273	G1836	6059257	2.70E-27	49%	Lycopersicon esculentum
273	G1836	6918056	7.70E-27	58%	Lycopersicon pennellii
273	G1836	14141694	2.80E-26	42%	Oryza sativa
273	G1836	12502337	2.80E-26	59%	Sorghum propinquum
275	G1900	853689	5.50E-62	76%	Cucurbita maxima
275	G1900	7242897	6.10E-53	71%	Oryza sativa
275	G1900	11896569	6.20E-34	76%	Medicago truncatula
275	G1900	9419494	6.10E-30	71%	Hordeum vulgare
275	G1900	14317796	4.90E-29	73%	Triticum aestivum
275	G1900	8106866	9.70E-29	65%	Lycopersicon esculentum
275	G1900	14527280	1.20E-28	50%	Hordeum vulgare subsp. spontaneum
275	G1900	7535776	3.00E-28	72%	Sorghum bicolor
275	G1900	12690444	5.30E-24	64%	Glycine max
275	G1900	3929324	5.00E-22	75%	Dendrobium grex Madame Thong-IN
277	G1903	8671913	7.80E-31	49%	Oryza sativa
277	G1903	11898184	1.70E-30	61%	Medicago truncatula
277	G1903	8106866	2.40E-30	50%	Lycopersicon esculentum

277	G1903	9419494	7.10E-29	50%	Hordeum vulgare
277	G1903	14317796	1.80E-27	61%	Triticum aestivum
277	G1903	7535776	3.40E-26	68%	Sorghum bicolor
277	G1903	853689	1.40E-25	58%	Cucurbita maxima
277	G1903	14527280	2.00E-25	73%	Hordeum vulgare subsp. spontaneum
277	G1903	13610810	1.20E-22	41%	Solanum tuberosum
277	G1903	5606389	2.10E-22	50%	Glycine max
279	G1950	11034976	4.90E-49	66%	Oryza sativa
279	G1950	13618843	2.50E-46	45%	Solanum tuberosum
279	G1950	4837520	9.30E-43	88%	Zea mays
279	G1950	11065445	8.70E-42	73%	Lotus japonicus
279	G1950	9444793	1.30E-31	88%	Triticum aestivum
279	G1950	9819468	1.40E-29	44%	Glycine max
279	G1950	9676491	5.70E-27	60%	Medicago truncatula
279	G1950	13395130	5.00E-26	70%	Euphorbia esula
279	G1950	3855923	2.30E-05	58%	Populus tremula x Populus tremuloides
279	G1950	13120111	0.0004	45%	Hordeum vulgare
281	G1958	7559027	9.60E-38	61%	Medicago truncatula
281	G1958	7145709	1.20E-37	60%	Glycine max
281	G1958	5888939	2.80E-36	65%	Lycopersicon esculentum
281	G1958	4519670	4.70E-32	57%	Nicotiana tabacum
281	G1958	6942189	1.20E-25	27%	Mesembryanthemum crystallinum
281	G1958	9417271	7.50E-20	48%	Triticum aestivum
281	G1958	7746203	1.40E-19	60%	Lotus japonicus
281	G1958	4880939	7.60E-19	84%	Oryza sativa
281	G1958	11885345	3.00E-16	92%	Hordeum vulgare
281	G1958	13607559	1.30E-13	84%	Solanum tuberosum
283	G2124	5606956	7.00E-34	83%	Glycine max
283	G2124	11609693	2.20E-32	55%	Medicago truncatula
283	G2124	13027304	3.80E-29	62%	Oryza sativa
283	G2124	13098722	4.40E-29	54%	Hordeum vulgare
283	G2124	7719440	4.60E-25	66%	Lotus japonicus
283	G2124	5047315	1.10E-18	58%	Gossypium hirsutum
283	G2124	13349862	1.50E-18	68%	Gossypium arboreum
283	G2124	8071090	1.20E-17	82%	Solanum tuberosum
283	G2124	12002866	4.40E-16	68%	Lycopersicon esculentum
283	G2124	12617626	4.00E-13	69%	Sorghum propinquum
285	G2143	7926519	8.70E-41	75%	Glycine max
285	G2143	9456677	2.00E-40	65%	Lycopersicon esculentum
285	G2143	5725018	1.70E-31	78%	Brassica rapa subsp. pekinensis
285	G2143	13260845	1.70E-26	55%	Hordeum vulgare
285	G2143	13027303	2.50E-25	64%	Oryza sativa
285	G2143	13586009	1.50E-22	62%	Sorghum bicolor
285	G2143	14244918	2.00E-20	67%	Zea mays
285	G2143	13588928	3.50E-18	91%	Sorghum propinquum
285	G2143	7778526	5.70E-13	39%	Lotus japonicus
285	G2143	11906035	2.70E-11	50%	Medicago truncatula
287	G2509	9417297	1.30E-27	56%	Triticum aestivum
287	G2509	7796858	3.20E-27	69%	Glycine max
287	G2509	4387560	4.50E-27	49%	Lycopersicon esculentum
287	G2509	7206394	5.10E-27	57%	Medicago truncatula
287	G2509	9959995	2.50E-26	82%	Ceratopteris richardii

287	G2509	13027316	5.80E-26	53%	Oryza sativa
287	G2509	9660634	1.80E-25	51%	Secale cereale
287	G2509	9859667	6.60E-25	49%	Hordeum vulgare
287	G2509	7788764	5.70E-24	53%	Lotus japonicus
287	G2509	14522495	2.50E-22	53%	Beta vulgaris
289	G2557	9259664	2.10E-46	76%	Glycine max
289	G2557	12641875	1.40E-33	42%	Oryza sativa
289	G2557	13260845	1.70E-31	61%	Hordeum vulgare
289	G2557	5725018	3.80E-27	61%	Brassica rapa subsp. pekinensis
289	G2557	13586009	3.70E-26	66%	Sorghum bicolor
289	G2557	9456677	2.20E-25	68%	Lycopersicon esculentum
289	G2557	14244918	3.20E-22	65%	Zea mays
289	G2557	13588928	4.00E-14	57%	Sorghum propinquum
289	G2557	11906035	2.20E-10	62%	Medicago truncatula
289	G2557	13178928	6.10E-10	58%	Solanum tuberosum
291	G5	6454441	2.80E-59	61%	Glycine max
291	G5	4383212	5.40E-53	61%	Lycopersicon esculentum
291	G5	8571475	9.20E-53	72%	Atriplex hortensis
291	G5	7766740	2.70E-51	63%	Medicago truncatula
291	G5	3857766	5.70E-49	59%	Populus balsamifera subsp. trichocarpa
291	G5	14548828	2.10E-44	78%	Melaleuca alternifolia
291	G5	13611057	9.80E-43	57%	Solanum tuberosum
293	G23	5899244	3.30E-35	41%	Lycopersicon esculentum
293	G23	13611504	1.30E-34	58%	Solanum tuberosum
293	G23	7564247	1.50E-34	59%	Medicago truncatula
293	G23	13256864	3.20E-32	57%	Hordeum vulgare
293	G23	10337649	5.20E-32	44%	Oryza sativa
293	G23	4396149	5.60E-32	65%	Glycine max
293	G23	12225915	1.70E-30	45%	Zea mays
293	G23	14204893	1.90E-29	41%	Glycine clandestina
293	G23	7779179	3.80E-27	57%	Lotus japonicus
293	G23	12003383	1.50E-26	51%	Nicotiana tabacum
295	G194	5892985	2.40E-39	73%	Lycopersicon esculentum
295	G194	10234013	1.80E-36	91%	Glycine max
295	G194	7721184	1.10E-35	91%	Lotus japonicus
295	G194	7559831	3.80E-35	81%	Medicago truncatula
295	G194	9444636	6.60E-31	78%	Triticum aestivum
295	G194	9304207	3.80E-30	80%	Sorghum bicolor
295	G194	9711848	6.20E-30	75%	Oryza sativa
295	G194	12657003	5.90E-28	93%	Lupinus luteus
295	G194	14266776	1.00E-27	82%	Solanum tuberosum
295	G194	8903662	5.80E-21	66%	Hordeum vulgare
297	G363	7676013	4.40E-20	56%	Medicago truncatula
297	G363	13477781	2.40E-18	49%	Glycine max
297	G363	5499417	1.00E-14	45%	Zea mays
297	G363	14577494	1.20E-14	36%	Gossypium hirsutum
297	G363	6534259	2.40E-14	46%	Lycopersicon esculentum
297	G363	8329902	3.00E-13	53%	Mesembryanthemum crystallinum
297	G363	14267549	4.70E-13	43%	Solanum tuberosum
297	G363	13353895	4.30E-12	53%	Gossypium arboreum
297	G363	9365078	1.80E-11	39%	Triticum aestivum
297	G363	3854369	6.00E-10	67%	Populus tremula x Populus tremuloides

299	G440	7560260	3.60E-37	53%	Medicago truncatula
299	G440	9711791	4.70E-31	44%	Oryza sativa
299	G440	6455200	6.20E-25	44%	Glycine max
299	G440	2213784	6.90E-21	46%	Lycopersicon esculentum
299	G440	3065894	4.90E-20	53%	Nicotiana tabacum
299	G440	9959995	1.20E-19	39%	Ceratopteris richardii
299	G440	12641410	2.20E-18	49%	Lycopersicon pennellii
299	G440	11206528	3.40E-18	38%	Gossypium arboreum
301	G550	7242897	2.30E-57	45%	Oryza sativa
301	G550	853689	4.70E-40	43%	Cucurbita maxima
301	G550	12630323	4.00E-39	55%	Lycopersicon esculentum
301	G550	11898184	2.80E-37	47%	Medicago truncatula
301	G550	14317796	9.50E-35	47%	Triticum aestivum
301	G550	14527280	7.40E-33	43%	Hordeum vulgare subsp. spontaneum
301	G550	9419494	3.80E-30	59%	Hordeum vulgare
301	G550	3929324	1.20E-29	66%	Dendrobium grex Madame Thong-IN
301	G550	7535776	3.10E-29	59%	Sorghum bicolor
301	G550	6341666	7.40E-26	44%	Glycine max
303	G670	13486711	1.30E-52	58%	Oryza sativa
303	G670	6341619	3.90E-48	93%	Glycine max
303	G670	11115896	1.60E-46	81%	Triticum aestivum
303	G670	11921132	1.70E-46	59%	Sorghum propinquum
303	G670	13259997	8.40E-46	81%	Hordeum vulgare
303	G670	5050757	2.20E-42	71%	Gossypium hirsutum
303	G670	7765706	3.00E-42	71%	Medicago truncatula
303	G670	14267068	5.80E-42	71%	Solanum tuberosum
303	G670	5860031	8.00E-42	76%	Pinus taeda
303	G670	7535969	1.40E-41	88%	Sorghum bicolor
305	G864	7560260	9.60E-37	54%	Medicago truncatula
305	G864	9711791	4.40E-35	39%	Oryza sativa
305	G864	3065894	1.80E-22	42%	Nicotiana tabacum
305	G864	2213784	5.20E-22	52%	Lycopersicon esculentum
305	G864	6455200	5.80E-22	45%	Glycine max
305	G864	9307238	1.10E-20	48%	Sorghum bicolor
305	G864	13108218	1.30E-19	50%	Hordeum vulgare
305	G864	3264766	5.10E-19	36%	Prunus armeniaca
305	G864	9862053	1.10E-18	34%	Triticum aestivum
307	G960	7563897	4.50E-63	79%	Medicago truncatula
307	G960	11529102	7.20E-53	68%	Solanum tuberosum
307	G960	8109913	3.50E-48	66%	Lycopersicon esculentum
307	G960	13656063	6.00E-48	68%	Triticum aestivum
307	G960	14328624	7.10E-42	59%	Sorghum bicolor
307	G960	7322127	6.20E-41	70%	Lycopersicon hirsutum
307	G960	7684896	6.70E-41	76%	Glycine max
307	G960	4715142	5.50E-40	73%	Oryza sativa
307	G960	6917445	1.80E-39	71%	Lycopersicon pennellii
307	G960	13350969	2.20E-37	59%	Gossypium arboreum
309	G1008	7560260	3.70E-28	52%	Medicago truncatula
309	G1008	2213784	4.90E-26	42%	Lycopersicon esculentum
309	G1008	3065894	1.20E-25	39%	Nicotiana tabacum
309	G1008	8669049	1.80E-25	68%	Glycine max
309	G1008	5295936	1.00E-21	35%	Oryza sativa

309	G1008	11206528	1.00E-18	36%	Gossypium arboreum
309	G1008	13179176	1.10E-17	47%	Solanum tuberosum
309	G1008	9305453	1.40E-17	45%	Sorghum bicolor
309	G1008	9427282	3.10E-17	59%	Triticum aestivum
311	G1020	13598668	7.60E-29	58%	Medicago truncatula
311	G1020	5606203	3.00E-28	61%	Glycine max
311	G1020	790360	2.40E-27	55%	Nicotiana tabacum
311	G1020	8809572	2.40E-26	53%	Nicotiana sylvestris
311	G1020	13614905	2.70E-26	62%	Solanum tuberosum
311	G1020	7785709	4.80E-24	64%	Lotus japonicus
311	G1020	10567105	6.40E-24	64%	Oryza sativa
311	G1020	4099913	1.10E-23	58%	Stylosanthes hamata
313	G1053	11550131	5.00E-31	47%	Mesembryanthemum crystallinum
313	G1053	9456362	1.40E-30	52%	Lycopersicon esculentum
313	G1053	13430399	3.00E-30	50%	Phaseolus vulgaris
313	G1053	12829955	9.50E-30	49%	Phaseolus acutifolius
313	G1053	10521234	3.30E-29	47%	Medicago truncatula
313	G1053	11273706	5.00E-29	50%	Glycine max
313	G1053	7614570	9.00E-22	46%	Lotus japonicus
313	G1053	13615940	3.50E-16	40%	Solanum tuberosum
315	G1137	13611056	4.70E-22	39%	Solanum tuberosum
315	G1137	9456321	9.10E-19	41%	Lycopersicon esculentum
315	G1137	6848196	2.40E-18	37%	Glycine max
315	G1137	11915982	1.10E-11	36%	Medicago truncatula
315	G1137	13349676	0.014	32%	Gossypium arboreum
315	G1137	8666194	0.031	37%	Pinus taeda
315	G1137	5704484	0.069	32%	Oryza sativa
315	G1137	5725018	0.11	30%	Brassica rapa subsp. pekinensis
315	G1137	13256814	0.19	32%	Hordeum vulgare
315	G1137	13586009	0.37	25%	Sorghum bicolor
317	G1181	13781730	2.10E-54	74%	Medicago truncatula
317	G1181	5821135	2.30E-46	66%	Nicotiana tabacum
317	G1181	19487	2.10E-45	71%	Lycopersicon peruvianum
317	G1181	662929	4.40E-44	74%	Glycine max
317	G1181	12481889	6.10E-43	73%	Pinus taeda
317	G1181	13261817	2.40E-41	73%	Hordeum vulgare
317	G1181	13613258	3.20E-41	73%	Solanum tuberosum
317	G1181	12974656	2.00E-40	83%	Mesembryanthemum crystallinum
317	G1181	8107182	5.70E-40	72%	Lycopersicon esculentum
317	G1181	7744291	2.20E-39	76%	Lotus japonicus
319	G1228	8284328	1.10E-31	38%	Glycine max
319	G1228	10190769	7.90E-23	71%	Oryza sativa
319	G1228	13086120	1.30E-15	61%	Hordeum vulgare
319	G1228	11114703	5.00E-14	39%	Triticum monococcum
319	G1228	13367403	8.80E-14	34%	Medicago truncatula
319	G1228	13068412	6.00E-13	42%	Pinus taeda
319	G1228	4386436	5.30E-12	66%	Lycopersicon esculentum
319	G1228	13608226	1.20E-11	65%	Solanum tuberosum
319	G1228	3641869	3.60E-11	35%	Cicer arietinum
319	G1228	8328925	6.30E-10	44%	Mesembryanthemum crystallinum
321	G1277	13151052	7.40E-62	87%	Descurainia sophia
321	G1277	5273258	1.60E-35	59%	Lycopersicon esculentum

321	G1277	5047442	1.40E-33	59%	Gossypium hirsutum
321	G1277	13783673	2.00E-33	78%	Medicago truncatula
321	G1277	9258887	9.00E-33	77%	Glycine max
321	G1277	5091496	1.00E-26	52%	Oryza sativa
321	G1277	7774679	2.60E-24	77%	Lotus japonicus
321	G1277	13084070	6.40E-21	45%	Hordeum vulgare
321	G1277	12482727	1.10E-19	48%	Pinus taeda
321	G1277	9963401	1.10E-19	55%	Cryptomeria japonica
323	G1309	9361969	4.80E-45	65%	Triticum aestivum
323	G1309	7566043	1.90E-34	66%	Medicago truncatula
323	G1309	13486711	5.70E-32	56%	Oryza sativa
323	G1309	13610740	2.10E-31	66%	Solanum tuberosum
323	G1309	12975513	2.90E-31	67%	Mesembryanthemum crystallinum
323	G1309	5891104	4.30E-31	56%	Lycopersicon esculentum
323	G1309	12015665	6.40E-31	77%	Glycine max
323	G1309	5050757	3.40E-30	77%	Gossypium hirsutum
323	G1309	13107238	3.60E-29	71%	Hordeum vulgare
323	G1309	7721017	6.80E-29	77%	Lotus japonicus
325	G1382	14422465	2.40E-73	54%	Oryza sativa
325	G1382	14530686	1.20E-63	45%	Nicotiana tabacum
325	G1382	13620219	1.20E-60	45%	Lycopersicon esculentum
325	G1382	5047470	5.30E-60	83%	Gossypium hirsutum
325	G1382	484260	1.00E-54	49%	Ipomoea batatas
325	G1382	13780730	8.50E-54	63%	Medicago truncatula
325	G1382	1159876	1.90E-53	49%	Avena fatua
325	G1382	3420905	1.60E-51	46%	Pimpinella brachycarpa
325	G1382	1431871	5.10E-51	48%	Petroselinum crispum
325	G1382	4894964	2.50E-50	43%	Avena sativa
327	G1655	13608454	1.90E-34	48%	Solanum tuberosum
327	G1655	6341915	1.50E-33	60%	Glycine max
327	G1655	13782531	9.60E-31	49%	Medicago truncatula
327	G1655	9827033	3.10E-29	43%	Mesembryanthemum crystallinum
327	G1655	13350104	9.80E-29	62%	Gossypium arboreum
327	G1655	5047398	7.20E-27	60%	Gossypium hirsutum
327	G1655	14595156	9.30E-26	50%	Oryza sativa
327	G1655	7615164	3.10E-25	61%	Lotus japonicus
327	G1655	5272746	1.10E-24	54%	Lycopersicon esculentum
329	G1757	9250625	3.50E-36	45%	Solanum tuberosum
329	G1757	6666667	8.80E-36	54%	Glycine max
329	G1757	5891879	2.00E-35	56%	Lycopersicon esculentum
329	G1757	6682075	1.00E-34	50%	Medicago truncatula
329	G1757	11493823	2.60E-21	41%	Petroselinum crispum
329	G1757	12404921	2.80E-21	53%	Oryza sativa subsp. japonica
329	G1757	7779701	1.00E-20	73%	Lotus japonicus
329	G1757	9662712	3.70E-19	58%	Secale cereale
329	G1757	13027324	6.90E-19	66%	Oryza sativa
331	G1845	12628171	3.80E-26	47%	Lycopersicon esculentum
331	G1845	11896286	9.70E-26	44%	Medicago truncatula
331	G1845	13611057	7.90E-25	49%	Solanum tuberosum
331	G1845	14366631	1.50E-24	47%	Sorghum bicolor
331	G1845	8902464	1.10E-23	51%	Hordeum vulgare
331	G1845	7324705	1.30E-23	50%	Lycopersicon pennellii

331	G1845	3857766	5.20E-23	55%	Populus balsamifera subsp. trichocarpa
331	G1845	6454441	8.10E-23	53%	Glycine max
331	G1845	8571475	1.20E-22	62%	Atriplex hortensis
331	G1845	790361	2.40E-21	37%	Nicotiana tabacum

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